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(UYSC-) UNIV SOUTHERN CALIFORNIA.
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16-DEC-1996;
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GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1107863 segs, 158726573 residues
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Listing first 45 summaries
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AAY32749
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AAW64744
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ULT 1 55614 AAW65614 standard; peptide; 7 AA.	AAW65614;	09-NOV-1998 (first entry)	Angiotensin II analogue.	andiotensin II. skin graft. AII anal
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ALIGNMENTS

skin graft; AII analogue; tissue repair; vasoconstrictor; 97US-0990664. 96US-0028310. 97WO-US23461. anglotensin I. wound healing Homo sapiens. WO9826795-A1 16-DEC-1997; 25-JUN-1998 Synthetic.

Promoting incorporation of skin graft onto underlying tissue -

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Rodgers

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us-09-772-819-18.rag

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The invention relates to the use of angiotensin II (AII), AII analogues, AII fragments and AII fragment analogues for promoting incorporation of a skin graft into underlying tissue of a mammal. The peptides are effective in accelerating the growth or healing of skin grafts and in accelerating re-epithelisation and tissue repair, even at very low concentrations. They can significantly accelerate the rate of healing at nanomolar levels in vivo. AII accelerates wound repair by increased neovascularisation, growth factor release, re-epithelisation, extracellular matrix production and increased flow of blood and nutrients to the injured tissue. Use of the above peptides other than AII itself (an extremely potent vaso-constitictor) may avoid the side-effects of AII, such as increase in blood pressure and thirst. The present sequence represents an angiotensin
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                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Proliferation; mesenchymal stem cell; lineage-specific cell; haematopoietic; cell culture; transplantation; treatment; malignant; inherited disease; angiotensinogen; angiotensin I; angiotensin III.
 comprises pre-treating graft with angiotensin II, or analogue or
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                                                                                                                                                                                                                                                                                                      100.0%; Score 41; DB 19; Length 7; 100.0%; Pred. No. 9.3e+05;
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                                                                                                                                                                                                                                                                                                                                   0; Mismatches
                                            Disclosure; Page 7; 82pp; English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAW64744 standard; peptide; 7 AA.
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97US-0036507.
97US-0046859.
97US-0063884.
97US-0063910.
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97US-0066593
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Angiotensin III peptide #2
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                                                                                                                                                                                                                                                                                                                     Best Local Similarity 100.
Matches 7; Conservative
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                                                                                                                                                                                                                                                                           7 AA;
               peptide fragment
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       23-JAN-1998;
28-JAN-1997;
08-MAY-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             26-JAN-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     diZerega G,
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                                                                                                                                                                                                                                                 II analogue.
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Promoting haematopoietic and mesenchymal cell proliferation and differentiation - by contacting the cells with angiotensinogen, angiotensin I or II, or analogues or fragments of these

Claim 37; Page 15; 114pp; English

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AAW64728-W64763 are peptides used in a novel method for accelerating the proliferation of mesenchymal stem cells (MSCS), haematopoietic lineage-specific cells or mesenchymal lineage-specific cells. The method involves contacting the cells with an active agent comprising a sequence consisting of at least three contiguous amino acids of groups R1-R8 in the sequence of formula, R1-R2-R3-R4-R5-R8-R7-R8. It and R2 together form a group of formula X-Ra-RB-, X = H or a 1-3 peptide group, R3 = Val, Ala, Leu, norLeu, Ile, Gly, Pro, Aib, Acpc (1-aminocyclopentane carbyx) acid) or Tyr, R8 = Tyr, Tyr(PO3) 2. Thr, Ser, homoSer or acaTyr, R5 = Ile, Ala, Leu, norLeu, Val or Gly, R6 = His, Arg or carboxylic acid) or Tyr, R8 = Phe, Phe(Br), Ile or Tyr, Ra and Rb are not defined in the specification, the peptide bond between Ra and Rb is labile to aminopeptidaes A cleavage excluding sequences including R4 as a terminal Tyr group. A second active agent comprising a sequence of formula R2-R3-R4-R5-R6-R7-R8 where R2 = H, Arg, Lys, Ala, orn, Ser(Ac), Sar, D-Arg or D-Lys, R3, R4, R5, R6, R7, R8 is alos described. The inventions are particularly useful in cell culture mediums. These cells may be used in transplantation techniques for treatment of malignant or inherited diseases. The formulae represent analogues of angiotensingen, angiotensin I (AI), angiotensin II (AI),
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Angiotensin; AII; acceleration; thermal wound healing; human; growth factor release; neovascularisation; re-epithelialisation; extracellular matrix production.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Peptide used to accelerate thermal wound healing.
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                                                                                                                                                                                                                                                                                                                                                                                                        or AII AT2 type 2 receptor agonists.
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les 7; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                            7 AA;
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Matches
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used to promote the healing of thermal

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The present invention describes a method for treating or preventing infections in mammals by administering peptides (A) that are fragments or analogues (or their fragments) of angiotensinogen, angiotensins I or II. or angiotensin II AT 2-type receptor agonists. (A) contain at least 3 consecutive amino acids (aa) from the sequence (S1):

R1-R2-R3-R4-R5-R6-R7-R8 (S1); where R1 and R2 together = X-Ra-Rb-;

R1-R2-R3-R4-R5-R6-R7-R8 (S1); where R1 and R2 together = X-Ra-Rb-;

C arboxylic acid), Ala, dimethylalycine, Pro, betaine, Glu(M1 2), Gly, App(MH 2) or succinyl; RB = Arg, Lys, Ala, Leu, norlthine, acetyl-Ser, C arcosylic acid), App Cor Tyr; R4 = Tyr (optionally phosphorylated), Thr, Ser, homoserine, Pro, Ala or aza-Tyr; C (optionally phosphorylated), Thr, Ser, homoserine, Pro, Ala or aza-Tyr; C S = Ile, Ala, Leu, Nle, Val or Gly; R6 = H1s, Arg or 6-amino-Phe; R7 = Pro or Ala; Be, 4-bromo-Phe, Ile or Tyr; proviso = sequences having R4 as a terminal Tyr residue are excluded. The method is parasticularly used in cases of bacterial infection (e.g. septic shock, peritonitis, bacteraemia or endotoxaemia) but also against viral and parastici infections. AAV49588 to AAV49623 represent specifically
                              wounds by accelerating growth factor release, neovascularisation, re-epithelialisation and extracellular matrix production. The sequences are analogues of the angiotensin or angiotensinogen family of proteins.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Angiotensin I; angiotensin II; angiotensinogen; AI; AII; infection; receptor agonist; septic shock; peritonitis; bacteraemia, endotoxaemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Treating or preventing infections in mammals using peptides derived from angiotensin or angiotensin receptor agonists
                                                                                                                                                                                                                                   100.0%; Score 41; DB 19; Length 7; 100.0%; Pred. No. 9.3e+05; Live 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Angiotensin analogue peptide SEQ ID NO:18.
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   AAW71115-27. The method can be
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                                                                                                                                                                                                                                   Query Match 100.
Best Local Similarity 100.
Matches 7; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 1999-620285/53
                                                                                                                                                                                                                                                                                                                                                                  1 RVYAHPF 7
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                                                                                                                                                                        7 AA;
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                                                                                                                                                                            Sequence
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This is the amino acid sequence of the Angiotensin II analogue, 22.

The formation of Angiotensin II (AII) is initiated by the action of renin on the plasma substrate angiotensinon.

This results in Angiotensin I (AII) which then converted to AII by the converting enzyme angiotensinase which removes the C-terminal His-Leu castiues from AI (AAY42372).

The active agents Angiotensinogen, Angiotensin II (AII), AII analogs, I fragments or analogs, Angiotensin II (AII), AII analogs, AII fragments or analogs, Angiotensin II (AII), AII analogs, I rapidly provide a large population of ESCs (Embryonic Stem Cell) for use in replacement therapy. Similarly, methods that increase in vivo in replacement therapy Similarly, methods that increase in vivo a prodiferation of ESCs will enhance the utility of replacement therapy by rapidly increasing local concentration of the stem cells and their progeny at the site of therapy. The method also increases the potential utility of ESCs as vehicles for gene therapy in certain disorders by more efficiently providing a large number of such cells for transfection, and also by providing a more efficient means to rapidly expand
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                                                 Gaps
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                                                 Indels
                                                                                                                                                                                                                                                                                                                               embryonic stem cell; BS; angiotensin; totipotent cell; gene therapy; replacement therapy; angiotensin II; AII;
                 100.0%; Score 41; DB 20; 100.0%; Pred. No. 9.3e+05;
                                                 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               angiotensin peptides, analogs or fragments
                                                                                                                                                                                              AAY42353 standard; peptide; 7 AA.
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                                                                                                                                                                                                                                                                                                Angiotensin II analogue 22
Query Match
Best Local Similarity 100.0
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                                                                                1 RVYAHPF 7
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Best Local Similarity
Matches 7; Conser
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                                                                                                                                                                                                                                                                                                                                                               analogue.
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ID AAY4
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AAY30583-Y30620 represent angiotensin I (AI) and angiotensin (II), AII fragments and AII analogues. The peptides are used in the method of the invention. The specification describes a method for mitigating radiation induced tissue damage, improving the effectiveness of radiation induced tissue damage; improving the effectiveness of production therapy, to support bone marrow transplantation, and production. The method comprises administration of the present peptides. The methods can be used to mitigate radiation induced tissue damage, to improve the effectiveness of radiation therapy, to support bone marrow cransplantation, and to promote megakaryocyte production and mobilization and platelet production. They are used particularly in cancer therapy. They can also be used to provide megakaryocytes as concer therapy. They can also be used to provide megakaryocytes as more efficient means to rapidly expand transfected megakaryocytes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Use of angiotensin and angiotensin type peptides, for mitigating radiation induced tissue damage, improving bone marrow transplantation and promoting megakaryocyte and platelet production
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100.0%; Pred. No. 9.3e+05;
ive 0; Mismatches 0;
gene therapy; hematopoietic disorder.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 2; Page 97; 116pp; English.
                                                                                                                                                                                                                                                                                                                          SOUTHERN CALIFORNIA.
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98US-0081262.
98US-0083670.
98US-0090096.
98US-0090216.
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Best Local Similarity 100...
7; Conservative
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                                                                                                                                                                                                                                                                                                                                           (RODG/) RODGERS K E. (DIZE/) DIZEREGA G.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 RVYAHPF 7
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22-JUN-1998;
11-SEP-1998;
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Homo sapiens
                                                                       W09945945-A1
                                                                                                                                                  08-MAR-1999;
                                                                                                                                                                                                       09-APR-1998;
                                                                                                             16-SEP-1999
                                                                                                                                                                                      10-MAR-1998
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAY30539-80 represent angiotensin I (AI) and angiotensin (II), AII fragments and AII analogues. The peptides are used in the method of the invention. The specification describes an improved method for producing a tissue equivalent. The method comprises contacting the tissue equivalent with angiotensin I and II derived active agents. The methods are used for production and culture of tissue equivalents (three-dimensional cell and tissue culture systems). Chosen from skin, dermis, bone, bone marrow, panceas, heart valve, vascular graft, cartilage, ligament, collagen lattice, liver and kidney tissue equivalents. The methods and tissue culture systems are used for the long-term prohiferation of cells and tissues in an in vitro environment that more closely approximates that found
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                                                                                                                                                                                                         Angiotensin; analogue; tissue equivalent; cell proliferation.
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                                                                                                                                                                    Amino acid sequence of an angiotensin II analogue
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100.0%; Pred. No. 9.3e+05;
ive 0; Mismatches 0;
                                                    AAY30554 standard; peptide; 7 AA.
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Best Local Similarity 100.
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                                                                                                                                                                                                                                                                                                                        16-SEP-1999
                                                                                                                                                                                                                                             Synthetic.
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RESULT 7 AAY30598

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Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAY33783;
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                                                                                                                                                                                                                                          peptides AN32715-Y32749 are angiotensin II (AII) analogues. The peptides are derived from the AII peptide (AAY32750). AII increases mitogenesis and chemotaxis in cultured cells, and also increases the mitogenesis and chemotaxis in cultured cells, and also increases been clease of growth factors and extracellular matrices. AII has also been shown to increase the proliferation of certain cell types. The AII analogue peptides can be used as the active agent in a method for promoting hepatice cell proliferation amount effective enough to promote proliferation of any of the peptides. This method is useful in liver regeneration following resection of hepatocarcinomas, hepaticis infection, cirrhosis of the liver, partial hepatocarcinomas, hepaticis failure, hepatocyte transplantation, liver transplantation and other cheptic disorders where rapid regeneration of the liver is desirable. The methods are also useful in rapidly providing a large population of hepatic cells for use in cell therapy and for providing a large
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                          Hepatic cell proliferation with angiotensin I and II derived active agents, useful for regeneration of liver after resection
                                                                                                                                                                                                                                                                                                                                                                                                             population of transfected hepatic cells for use in gene therapy
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                                                                                                                                                                                                                                                                                                                                                                                                                                                    100.0%; Score 41; DB 20; Length 7; 100.0%; Pred. No. 9.3e+05; ive 0; Mismatches 0; Indels
                                                                                                       (DIZE/) DIZEREGA G.
(RODG/) RODGERS K E.
(UYSC-) UNIV SOUTHERN CALIFORNIA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAY32729 standard; peptide; 7 AA.
                                                                                                                                                                                                                          Claim 2; Page 11; 66pp; English.
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                                                   99WO-US02618
                                                                        98US-0108412.
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Best Local Similarity 100.
Matches 7; Conservative
                                                                                                                                                   Dizerega G, Rodgers KE;
                                                                                                                                                                      WPI; 1999-508461/42.
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          W09939743-A2
                                                    08-FEB-1999;
                                                                        13-NOV-1998;
09-FEB-1998;
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peptides AMY32715-Y32749 are angiotensin II (AII) analogues. The peptides are derived from the AII peptide (AAY32750). AII increases also dependensia and chemotaxis in cultured cells, and also increases the release of growth factors and extracellular matrices. AII has also been shown to increase the proliferation of certain cell types. The AII analogue peptides can be used as the active agent in a method for promoting hepatic cell proliferation and differentiation. The method involves contacting the hepatic cells with an amount effective enough to promote proliferation of any of the peptides. This method is useful in promote proliferation of any of the peptides. This method is useful in fection, cirrhosis of the liver, partial hepatecatoriomas, hepatic failure, hepatocyte transplantation, liver transplantation and other hepatic disorders where rapid regeneration of the liver is desirable. The methods are also useful in rapidly providing a large population of transfected hepatic cells for use in gene therapy.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0; Mismatches
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                                                                                                      (DIZE/) DIZEREGA G.
(RODG/) RODGERS K E.
(UYSC-) UNIV SOUTHERN CALIFORNIA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 2; Page 11; 66pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           99WO-US03772
98US-0108412
98US-0074104
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                                                                                                                                                                                                                                                         Dizerega G, Rodgers KE;
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   13-NOV-1998;
09-FEB-1998;
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Promoting neuronal cell proliferation and differentiation

WPI; 1999-527420/44

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II (AII) octapeptide (AAY33768) and they have AIZ agonist activity. The application of angiotenin to wound tissue significantly increases the rate of wound healing. All is known to increase micogenesis and chemotaxis in cultured cells, and also increases their release of growth differentiation. ATZ receptors are receptors for All and are thought to be involved in the mediation of the cell differentiation effects of AlI. epptides AAX33768 Y33802 are used in a method for promoting neuronal cell prollferation or differentiation. This method is useful in the treatment of Alzheimer's and Parkinson's diseases by neuron replacement
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              This sequence is an angiotensin II (AII) analogue. Similar sequences also based on the AII peptide have been tested against each other, AII and a negative control. These active agents have been shown to affect the levels of BFU-E (burst forming units-erythroid) in culture. The active agents (AAY15348, AAY15399, AAY15372, AAX15379, and AAY15380) augment erythropoiesis by potentiating erythropoietin-induced
                                                                                                         Sequences AAY33769-Y33802 are fragments or analogues of the angiotensin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                burst forming units-erythroid; BFU-E; erythropoiesis; angiotensin; AII; analogue; chronic renal failure; cancer; bone marrow.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Promoting erythropoiesis with angiotensin I and II derived active agents, useful for treatment of, e.g. congenital or acquired aplastic or hypoplastic anemia
                                                                                                                                                                                                                                                                                                                                                                                                             ;
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                                                                                                                                                                                                                                                                                                                                                                      Query Match
100.0%; Score 41; DB 20;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAY15359 standard; peptide; 7 AA.
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                                                                      Claim 2; Page 12; 62pp; English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 RVYAHPF 7
                                                                                                                                                                                                                                                                                                                                      7 AA;
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              benefits for the treatment of congenital or acquired aplastic or hypoplastic anemia associated with chronic renal failure, end-stage renal disease, renal transplantation, cancer, AIDS, chemotherapy, radiotherapy, bone marrow transplantation and chronic diseases.

The active agents permit the use of smaller doses of exythropoletin therefore decreasing treatment costs.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        This is the amino acid sequence of an Angiotensin II analogue. This and other similar analogues (AAY15306 to AAY15316 and AAY15317 to AAY15341) can be used to promote the proliferation of epithelial stem cells and Keratinocytes leading to a more rapid and efficient cellular response to stratified epithelial injury. The angiotensin analogues are derived from
 differentiation. Increasing the rate of erythropoiesis improves clinical
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        an octapeptide present in humans and other species which has the sequence of Asp-Arg-Val-Tyr-Ile-His-Pro-Phe (AAY15342) and is known as angiotensin II (AII). This is formed by the action of renin on the plasma substrate angiotensinogen, the product of this reaction is a decapeptide called angiotensin I (AI) which is converted to AII by the converting enzyme angiotensinase which removes the C-terminal His-Leu residues from AI (AAY15339).
                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Epithelial stem cell and keratinocyte proliferation with angiotensin
I and II derived active agents, useful for treatment of skin wounds
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                                                                                                                                                                     Length 7;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         angiotensin, angiotensin II; AII; wound healing; scarring; tissue repair; agonist; analogue.
                                                                                                                                                                                                     Indels
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100.0%; Pred. No. 9.3e+05;
tive 0; Mismatches 0;
                                                                                                                                                                     Cuery Match
100.0%; Score 41; DB 20;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                           AAY15319 standard; peptide; 7 AA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                             Angiotensin II (AII) analogue 22.
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Matches 7; Conservative
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                                                                                                                                                                                                                                                                       1 RVYAHPF
                                                                                                                                       7 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Synthetic
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Wound; scar formation; healing; adhesion formation; AII; angiotensin II analogue; scar treatment.
                               Angiotensin II analogue SEQ ID NO: 18.
                                                                                                                                                                                                                                                                                                                                                                       one active agent comprising a peptide
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                                                                                                                                                                                                                                                                   (UYSC-) UNIV SOUTHERN CALIFORNIA.
                                                                                                                                                                                                                                                                                                                                                                                                     Claim 2; Page 10; 54pp; English.
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 (first entry)
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Matches 7; Conservative
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1 RVYAHPF 7
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                                                                                                                               WO200056345-A2
                                                                                                                                                                                                                      23-MAR-1999;
16-JUN-1999;
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 26-JAN-2001
                                                                                                                                                              28-SEP-2000,
                                                                                                                                                                                                                                                                                                Rodgers K,
                                                                                                      Synthetic.
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AAY84140
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Promoting myocyte proliferation and myocardial tissue repair by contacting myocytes with angiotensinogen or angiotensin I or II, useful for treating heart attacks, cardiomyopathies, inflammation and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The present invention relates to a method of promoting myocyte proliferation or differentiation by contacting myocytes with an active agent containing angiotensinogen, angiotensin I and II (AI, AII), and angiotensin analogs. The present sequence is an angiotensin II analog of the invention. The active agents of the invention may be useful for promoting myocardial tissue repair following myocardial injury and for treating heart failure in a mammal. Administration to accelerate in vivo myocyte proliferation and/or to treat myocardial injuries can be
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       used to treat cardiomyopathies, inflammation, infection, sepsis, ischemia, heart valve disease, myocarditis, inflammation, myocardial ischemia and infarction and for improving cardiac output by increasing
                                                                                                                                                                                                                      Angiotensinogen; AII; AII; myocyte proliferation; myocardial injury; cardiomyopathies; inflammation; infection; sepsis; ischemia; heart valve disease; myocarditis; angiotensin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
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                                                                                                    AAB27418 standard; Peptide; 7 AA
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                                                                                                                                                              (first entry)
                                                                                                                                                                                           Angiotensin II analog #22
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Best Local Similarity
7; Conserv
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RVYAHPF 7
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RVYAHPF
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                                                                                                                                                              23-JAN-2001
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AAB27418
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                                                                                                                                                                                                                                                                                                                                                    The present invention is concerned with peptide analogues of angiotensin [1 (AII) which can be used to limit scar and adhesion formation. The application of AII to wound tissue results in a rapid increase in the rate of wound healing and causes the proliferation of certain cells, such as epithelial cells and keratinocytes. Analogues of the protein have been scar formation, and can be used not only to limit new scar formation but also to therapeutically treat existing scars. The wound types include lacerations, burns, punctures, trauma, ulcers, wound types include lacerations, burns, punctures, trauma, ulcers, hyperitophic scars, genetic hypertrophic scars, keloid scars, contractures after burns and cosmetic surgical procedures.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                 Limiting scar or adhesion formation comprises administering at least
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               100.0%; Score 41; DB 21; 100.0%; Pred. No. 9.3e+05;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
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AAB28116;

RESULT 14 AAB28116

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The present sequence represents an angiotensin II analogue. The specification also describes peptides derived from angiotensin Gen, angiotensin II, angiotensin II, angiotensin II, angiotensin II, angiotensin III, and their analogues. The peptides are used for increasing blood flow to ischemic tissue. The peptides are angiogenesis stanulators. The peptides are useful for increasing blood flow to ischemic tissue by stimulating angiogenesis, and minimizing cardiac remodelling and development of congestive heart disease following a ischemic myocardial infarction. The stimulation of angiogenesis is also useful for embyronic development, wound healing and treating chronic inflammatory disease.
                                                                                                                                                                                                                                                                                                                                                                                                                               Increasing blood flow to ischemic tissue for minimizing cardiac remodelling and development of congestive heart failure involves administration of an active agent
                                                                                                                                                                                               (UYSC-) UNIV SOUTHERN CALIFORNIA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 2; Page 45; 56pp; English
99WO-US18374.
                                                                             98US-0096414.
98US-0101024.
                                                                                                                                                                                                                                                                            Rodgers K, Dizerega G;
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                                                                             13-AUG-1998;
18-SEP-1998;
12-AUG-1999;
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Gaps .. Query Match
100.0%; Score 41; DB 21; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels ઠે

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Sequence Sequence

Sequence

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Query Match 100.0%; Score 41; DB 3; Length 7; Best Local Similarity 100.0%; Pred. No. 2.5e+05; Matches 7; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                Sequence 19, Application US/08990664
| Patent No. 6110895
| GENERAL INFORMATION:
| APPLICANT: Rodgers, Kathleen
| APPLICANT: diZerega, Gere
| TILLE OF INVENTION: METHOD OF PROMOTING HEALING
| TILLE OF INVENTION: IN SKIN GRAFTS
| NUMBER OF SEQUENCES: 46
| CORRESPONDENCE ADDRESS:
| ADDRESSEE: Knobbe, Martens, Olson & Bear
| STREET: 620 Newport Center Drive 16th Floor
| CITY: Newport Beach
US-09-698-354-10

US-09-307-940B-13

US-09-67-890-13

US-09-657-890-17

US-09-657-890-17

US-09-266-293A-17

US-09-266-293A-17

US-09-266-293A-13

US-09-16-394-13

US-09-16-394-13

US-09-117-3

US-08-99-117-4

US-08-623-833B-2

US-08-63-137-3

US-08-63-137-3

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US-08-990-664-35
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US-09-373-962-19
                                                                                                                                                                                                                                                                                ALIGNMENTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NAME: Altman, Daniel E
REGISTRATION NUMBER: 34,115
REFERNICE/DOCKET NUMBER: USC012.001A
TELECOMMUNICATION INFORMATION:
TELEPHONE: 714-760-0404
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      OPERATING SYSTEM: DOS
SOFTWARE: PRESENCE VERSION 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/990,664
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CLASS/FICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/028,310
FILING DATE: 16-DEC-1996
ATTORNEY/AGENT INDORMATION:
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COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
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LENGTH: 7 amino acids
TYPE: amino acid
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ZIP: 92660
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskett
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  STRANDEDNESS:
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  Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                            (without alignments)
14.809 Million cell updates/sec
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                                                                                                2003, 18:12:56; Search time 20 Seconds
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(Ggn2 6/ptodata/2/iaa/5A CONB.pep:*
(Ggn2 6/ptodata/2/iaa/6B_CONB.pep:*
(Ggn2 6/ptodata/2/iaa/6A_CONB.pep:*
(Ggn2 6/ptodata/2/iaa/6B_CONB.pep:*
(Ggn2 6/ptodata/2/iaa/PCTUS CONB.pep:*
(Ggn2 6/ptodata/2/iaa/PCTUS CONB.pep:*
                GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.
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US-09-133-962-18

US-09-129-806C-18

US-09-129-806C-18

US-09-12-10-10-18

US-09-264-563-18

US-09-264-563-18

US-09-266-294-18

US-09-266-294-18

US-09-266-294-18

US-09-266-294-18

US-09-390-664-14

US-08-990-664-14

US-08-990-664-14

US-08-990-664-14

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US-09-373-962-13

US-09-373-962-13
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US-09-264-563-17
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Maximum Match 100%
Listing first 45 summaries
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Gapop 10.0 , Gapext 0.5
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length: 2000000000
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Match Length
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Perfect score:
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CRGANISM: Artificial Sequence
FEATURE:
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ORGANISM: Artificial Sequence
FEATURE:
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Best Local Similarity 100.
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US-09-352-191-18
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                                                                                                                                                                    APPLICANT: Rodgers, Kathleen
APPLICANT: Rodgers, Gere
TITLE OF INVENTION: Methods to Increase Blood Flow to Ischemic Tissue
FILE REFERENCE: 98364A
CURRENT APPLICATION NUMBER: US/09/373,962
CURRENT FILIG DATE: 1999-08-13
NUMBER OF SED ID NOS: 42.0
                                                                                                                                                                                                                                                                                                                                                                                                    ; OTHER INFORMATION: Description of Artificial Sequence:AII analogue US-09-373-962-18
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; Patent No. 6248587
; GENERAL INFORMATION:
; APPLICANT: Rodgers, Kathleen
; APPLICANT: diZerega, Gere
; TITLE OF INVENTION: Method for Promoting Mesenchymal Stem
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 7;
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| Patent No. 6239109|
| GENERAL INFORMATION|
| APPLICANT: Rodgers, Kathleen APPLICANT: Rodgers, Gere ITILE OF INVENTION: Method of Promoting Erythropoiesis ITILE OF INVENTION NUMBER: US/09/245,680B CURRENT APPLICATION NUMBER: US/09/245,680B | NUMBER OF SEQ ID NOS: 39 | SOFTWARE: Patentin Ver. 2.0
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100.0%; Pred. No. 2.5e+05;
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; Patent No. 6177407
; GENERAL INFORMATION:
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ORGANISM: Artificial Sequence
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Best Local Similarity 100..
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Matches 7; Conservative
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US-09-373-962-18
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US-09-245-680-18
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GENERAL INFORMATION:
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Rodgers, Kathleen
APPLICANT: Rodgers, Kathleen
APPLICANT: dizerega, Gere
TITLE OF INVENTION: Method for Promoting Hematopoietic and Mesenchymal Cell
TITLE OF INVENTION: Proliferation and Differentiation
FILE REPERENCE: 97,017-6
CURRENT RILING DATE: 1998-01-23
CURRENT FILING DATE: 1998-01-23
SOFTWARE: Patentin Ver. 2.0
SEQ ID NOS: 38
SEQ ID NO 18
SEQ ID NO 18
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Sequence 18, Application US/09352191

GENERAL INFORMATION:
APPLICANT: Rodgers, Kathleen
APPLICANT: Addressed, Gere
TITLE OF INVENTION: Growth and Repair
TITLE OF INVENTION: Growth and Repair
CURRENT APPLICATION NUMBER: US/09/352,191
CURRENT FILING DATE: 1999-07-12
NUMBER OF SEQ ID NOS: 45
SOFTWARE: PATENTIN Ver: 2.0
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US-09-198-806C-18
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TITLE OF INVENTION: and Lineage-Specific Cell Proliferation FILE REPREBRUCE: 97,017-F1
CURRENT APPLICATION WHEER: US/09/198,806C
CURRENT ELLING DATE: 1,998-11-24
NUMBER OF SEQ ID NOS: 38
SSOFTWARE: PatentIn Ver. 2,0
LENGTH: 7
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100.0%; Score 41; DB 3; L
Best Local Similarity 100.0%; Pred. No. 2.5e+05;
Matches 7; Conservative 0; Mismatches 0;
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100.0%; Pred. No. 2.5e+05;
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; Sequence 18, Application US/09012400D
; Patent No. 6335195
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Sequence 18, Application US/09716394

Patent No. 6566335

GRNEAL INFORMATION:
APPLICANT: University of Southern California
APPLICANT: Rodgers, Kathleen
APPLICANT: AdZerega, Gere
ITILE OF INVENTION: Methods for Mobilizing Hematopoietic Progenitor Cells from Bone
TITLE OF INVENTION: into Peripheral Blood in a Patient in Need of Chemotherapy
FILE REPERENCE: 97,017-P8
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GENERAL INFORMATION:
APPLICANT: Rodgers, Kathleen
APPLICANT: Gizerega, Gene
APPLICANT: dizerega, Gene
TITLE OF INVENTION: Method of Promoting Production of Living Tissue
TITLE OF INVENTION: Bquivalents
FILE REPRENCE: 98044b
CURRENT APPLICATION NUMBER: US/09/266,293A
CURRENT FILING DATE: 1999-03-11
NUMBER OF SEQ 1D NOS: 42
SOFTWARE: Patentin Ver. 2.0
SEQ 1D NO 18
                                                                                                                                                                                                                                                                                                                                                                                                       ; OTHER INFORMATION: Description of Artificial Sequence:AII analogue US-09-657-890-18
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                                                                             GENERAL INFORMATION:
APPLICANT: Rodgers, Kathleen
APPLICANT: dizerega, Gere
TITLE OF INVENTION: Methods to Stimulate Angiogenesis
TITLE OF INVENTION: Methods to Stimulate Angiogenesis
CURRENT APPLICATION NUMBER: US/09/657,890
CURRENT FILING DATE: 2000-09-08
KUCKBER OF SEQ ID NOS: 42
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 18
LENGTH: 7
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US-09-266-291A-18
: Sequence 18, Application US/09266293A
; Patent No. 6498138
                                               Sequence 18, Application US/09657890
Patent No. 6482800
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Best Local Similarity 100.
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1 RVYAHPF 7
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US-09-716-394-18
                         JS-09-657-890-18
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Patent No. 6475988
Patent No. 6475988
Patent No. 6475988
Patent No. 6475988
TIGENERAL INFORMATION:
APPLICANT: Redgers, Kathleen
APPLICANT: Gizerega, Gere
TITLE OF INVENTION: Chemotherapy
FILE REPERENCE: 9701791
FILE REPERENCE: 9701791
CURRENT PAPLICATION NUMBER: US/09/307,940B
CURRENT FILING DATE: 1999-05-10
NUMBER OF SEQ 1D NOS: 42
SOFTWARE: PatentIn Ver. 2.0
SEQ 1D NO 18
LENGTH: 7
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; OTHER INFORMATION: Description of Artificial Sequence:AII analogue US-09-264-563-18
OTHER INFORMATION: Description of Artificial Sequence: All analogue
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                                                               100.0%; Score 41; DB 4; Length 7; 100.0%; Pred, No. 2.5e+05; Live 0; Mismatches 0; Indels
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100.0%; Score 41; DB 4; Length 7;
Best Local Similarity 100.0%; Pred. No. 2.5e+05;
Matches 7; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                         Sequence 18, Application US/09264563A
Patent No. 6455500
GENERAL INFORMATION:
APPLICANT: Rodgers, Kathleen
APPLICANT: dizerega, Gere
TITLE OF INVENTION: Radiation Therapy Methods
FILE REFERENCE: 97017A1
CURRENT APPLICATION NUMBER: US/09/264,563A
CURRENT FILING DATE: 1999-03-08
SOFTWARE: Patentin Ver. 2.0
SECIEN NO. 18
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Best Local Similarity 100.0
Matches 7; Conservative
                                                               Query Match
Best Local Similarity 190.
Matches 7; Conservative
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1 RVYAHPF 7
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       ; OTHER INFORM!
US-09-012-400-18
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US-09-264-563-18
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                                                           Score 37; DB 3; Length 7; Pred. No. 2.5e+05; 0; Mismatches 1; Indels
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Patent No. 6110895

GENERAL INFORMATION:
APPLICANT: Rodgers, Kathleen
APPLICANT: dizerega, Gere
TITLE OF INVENTION: METHOD OF PROMOTING HEALING
TITLE OF INVENTION: IN SKIN GRAFTS
NUMBER OF SEQUENCES: 46
CORRESPONDENCE ADDRESS:
ADDRESSEE: Knobbe, Martens, Olson & Bear
STREET: 620 Newport Center Drive 16th Floor
CITY: Newport Beach
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 90.2%; Score 37; DB 3; I Best Local Similarity 85.7%; Pred. No. 2.5e+05; Matches 6; Conservative 0; Mismatches 1;
CTHER INFORMATION: Position 4 is norLeu
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OPERATING SYSTEM: DOS
OPERATING SYSTEM: DOS
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/990,664
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US-08-990-664-39
; Sequence 39, Application US/08990664
; Parent No. 6110895
; GENERAL INFORMATION:
; APPLICANT: Rodgers, Kathleen
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CLASSIFFCATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/028,310
FILING DATE: 16-DEC-1996
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NAME: Altman, Daniel E
REGISTRATION NUMBER: 34,115
REFERENCE/DOCKET NUMBER: USC
TELECOMMUNICATION INFORMATION:
TELEPHONE: 714-760-0404
                                                           Query Match
Best Local Similarity 85.7%;
Matches 6; Conservative
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INFORMATION FOR SEQ ID NO:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE CHARACTERISTICS LENGTH: 7 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELEFAX: 714-760-9502
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               amino acid
EDNESS: single
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STATE: CA
COUNTRY: U.S
TD: 92660
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US-08-990-664-18
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US-08-990-664-14
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Rodgers, Kathleen
APPLICANT: Rodgers, Gere
TITLE OF INVENTION: METHOD OF PROMOTING HEALING
TITLE OF INVENTION: IN SKIN GRAFTS
NUMBER OF SEQUENCES: 46
CORRESPONDENCE ADDRESS:
ADDRESSEE: Knobbe, Martens, Olson & Bear
STREET: 620 Newport Center Drive 16th Floor
CITY: Newport Beach
STATE: CA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FILING DATE:
CLASSIFICATION
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/028,310
FILING DATE: 16-DEC-1996
ATTORNEY/AGENT INFORMATION:
NAME: Altman, Daniel E
REGISTRATION NUMBER: 34,115
REFERENCE/DOCKET NUMBER: USC012.001A
TELECOMMUNICATION INFORMATION:
TELEPHONE: 714-760-0404
            PRIOR PEDICATION NUMBER: US 60/084,908
PRIOR FILING DATE: 1998-05-11
PRIOR APPLICATION NUMBER: US 60/092,633
PRIOR FILING DATE: 1998-07-13
PRIOR FILING DATE: 1999-05-10
NUMBER OF SEQ ID NOS: 42
SOFTWARE: Patentin version 3.0
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CUSTUARE: FASCEQ Version 1.5
CUSRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/990,664
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; Sequence 14, Application US/08930664; Patent No. 6110895; GENERAL INFORMATION:
CURRENT FILING DATE: 2000-11-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 7 amino acids
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ZIP: 9266C
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: ISM Compatible
OPERATING SYSTEM: DOS
                                                                                                                                                                                                                                                                  FEATURE:
COTHER INFORMATION: Ala4 AIII
US-09-716-394-18
                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity 100.0
Matches 7; Conservative
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MOLECULE TYPE: peptide
                                                                                                                                                                                                                            TYPE: PRT ORGANISM: artificial
                                                                                                                                                                                                                                                                                                                                                                                                                                 1 RVYAHPF 7
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US-08-990-664-14
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TITLE OF INVENTION: WETHOO OF PROMOTING HEALING
TITLE OF INVENTION: WETHOO OF PROMOTING HEALING
TITLE OF INVENTION: WETHOO OF SECURITY OF SECURITY AND GRAFTS
WINDERS TO STORE ADDRESS: 46 FROME OF STORE ADDRESS:
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; OTHER INFORMATION: Xaa(4) is norLeu
US-09-210-249-10
Query Match
Best Local Similarity 85.7%; Pred. No. 2.56+05;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 1 RVYAHPF 7
Db 1 RVYXHPF 7
Search completed: November 5, 2003, 18:19:44
Job time: 21 secs
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Sequence 13, Appl
Sequence 17, Appl
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App:
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                                                                                   November 5, 2003, 18:15:01; Search time 40 Seconds (without alignments) 30.056 Million cell updates/sec
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Sequence 18,
Sequence 13, P
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GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.
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US-09-837-697A-18
US-09-900-936-18
US-09-772-819-18
US-09-771-192-13
US-09-771-192-17
US-09-837-697A-13
US-09-837-697A-17
US-09-837-697A-17
US-09-900-936-17
US-09-900-936-17
US-09-772-819-13
US-09-772-819-13
US-09-772-819-13
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Maximum Match 100%
Listing first 45 summaries
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Gapop 10.0 , Gapext 0.5
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Maximum DB seq length: 2000000000
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Match Length DB
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Sequence 19, Appl	0	34,	e 19	e 20	34	19	20	m	Н	N	m	Н	N	m	ď	9	N		_	Sequence 2, Appli	÷		22	56	30	32		Sequence 7, Appli	Sequence 1, Appli	
US-09-771-192-19	US-09-771-192-20	771-1	-837-6	US-09-837-697A-20	-837-	-006-	966-006-6	US-09-900-936-34	9-772-	US-09-772-819-20	772	US-10-341-001-19	34	341	71-19	83	900		197	34	US-09-785-177-1	US-09-771-192-1	.771-19	-771-192-2	-771-19	-192-3	US-09-771-192-45	US-09-950-692-7	US-39-784-005-1	
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                 Sequence 18, Application US/09771192

Sequence 18, Application US/09771192

Sequence 18, Application US/09771192

GENERAL INFORMATION:
APPLICANT: ROGGERS, Kathleen
APPLICANT: ROGGERS, Gere
TITLE OF INVENTION: Methods for Inhibiting Smooth Muscle Cell Proliferation
FILE REPERENCE: 99-1043-A

CURRENT APPLICATION NUMBER: US/09/771,192

CURRENT FILING DATE: 201-01-26

NUMBER OF SEQ ID NOS: 51

SOFTWARR: Patentin Ver. 2.0

SEQ ID NO 18

LENGTH: 7
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US-09-837-697A-18
Sequence 18, Application US/09837697A
Parent No. US20020146823A1
GENERAL INFORMATION:
APPLICANT: University of Southern California
APPLICANT: Rogers, Kathleen E.
APPLICANT: diZerega, Gere
                                                                                                                                                                                                                                                                                                                    TYPE: PRT ORGANISM: Artificial Sequence
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Best Local Similarity luv.
"hee 7; Conservative
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RESULT 1
US-09-771-192-18
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Sequence 13, Application US/09771192
Parent No. US20020049162A1
GENERAL INFORMATION
APPLICANT: Rodgers, Kathleen
APPLICANT: diZerega, Gere
TITLE OF INVENTION: Methods for inhibiting Smooth Muscle Cell Proliferation
FILE REFERENCE: 99-1043-A
CURRENT APPLICATION NUMBER: US/09/771,192
NUMBER OF SEQ ID NOS: 51
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 13
    ; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:AII analogue
US-09-772-819-18
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                                                                                                 Query Match 100.0%; Score 41; DB 12; Length 7; Best Local Similarity 100.0%; Pred. No. 5.8e+05; Matches 7; Conservative 0; Mismatches 0; Indels
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                                                                                                                                                                                                                                                              RESCLT 5
US-10-341-601-18
Squence 18, Application US/10341001
Publication No. US20030130196A1
SPUBLICANT: ROGERS, Kathleen
APPLICANT: Rodgers, Kathleen
TITLE OF INVENTION: Radiation Therapy Methods
FILE REFERENCE: 97017KS
CURRENT FILLING DATE: 2003-01-13
NUMBER OF SEQ ID NOS: 38
SOFTWARE: PatentIn Ver. 2.0
LENGTH: 7
LENGTH: 7
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LOCATION: (4)
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TITLE OF INVENTION: Method for Promoting Hematopoietic and Mesenchymal Cell Prolifera TITLE OF INVENTION: Differentiation FILE PEPERACE: 97,017-F1A CURRENT APPLICATION NUMBER: US/09/837,697A CURRENT APPLICATION NUMBER: US/09/837,697A NUMBER OF SEQ ID NOS: 37 SOFTWARE: Patentin Version 3.1
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Publication No. US20030199434A1
SEGNERAL INFORMATION:
APPLICANT: Rodgers, Kathleen
APPLICANT: dizerega, Gere
TITLE OF INVENTION: Methods for Accelerating Bone and Connective Tissue TITLE OF INVENTION: Growth and Repair
FILE REFERENCE: 98365b
CURRENT PAPLICATION NUMBER: US/09/772,819
CURRENT FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 45
SEQ ID NO 18
LENGTH: 7
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APPLICANT: Rodgers, Karhleen
APPLICANT: diZerega, Gere
TITLE OF INVENTION: Methods for Promoting Dendritic Cell Proliferation
TITLE OF INVENTION: or Differentiation
FILE REFERENCE: 00-506-A
CURRENT APPLICATION NUMBER: US/09/900,936
CURRENT FILING DATE: 2001-07-09
NUMBER OF SEQ ID NGS: 50
SOFTWARE: PatentIn Ver. 2.0
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100.0%; Pred. No. 5.8e+05;
Artive 0; Mismatches 0; Indels
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                                                                                                                                                                                                              TYPE: PRT
ORGANISM: Artificial sequence
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Best Local Similarity 100.۰۰
مر 7; Conservative
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APPLICANT: digerega, General Applicant of INVENTION: Method for Promoting Hematopoietic and Mesenchymal Cell Prolife; TILE OF INVENTION: Differentiation FILE REPRENCE: 97,017-F1A CURRENT APPLICATION NUMBER: US/09/837,697A CURRENT FILING DATE: 2002-02-14 NUMBER OF SEQ ID NOS: 37 SOFTWARE: Patentin version 3.1 SEQ ID NO 17
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Patent No. US20020165141A1
GENERAL INFORMATION:
APPLICANT: Rodgers, Kathleen
APPLICANT: diZerega, Gere
TITLE OF INVENTION: Or Differentiation
TITLE OF INVENTION: Or Differentiation
FILE REPERENCE: 00-506-A
CURRENT APPLICATION NUMBER: US/09/900,936
CURRENT FILING DATE: 2001-07-09
NUMBER OF SEQ ID NOS: 50
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 13
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TITLE OF INVENTION: Methods for Promoting Dendritic Cell Proliferation
TITLE OF INVENTION: or Differentiation
FILE REFERENCE: 00-506-A
CURRENT APPLICATION UMBER: US/09/900,936
CURRENT FILING DATE: 2001-07-09
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OTHER INFORMATION: Description of Artificial Sequence:All analogue
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University of Southern California
Rogers, Kathleen E.
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                                                                                                                                                                                                                                                                                                                                                                                                                                               ; OTHER INFORMATION: ALL analogue US-09-837-697A-17
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Best Local Similarity 85...
For 6; Conservative
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Best Local Similarity 85.7
Matches 6; Conservative
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US-09-900-936-13
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LOCATION: (4)
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US-09-900-936-13
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US-09-900-936-17
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APPLICANT: University of Southern California
APPLICANT: Rogers, Kathleen E.
APPLICANT: algerega, Gere
APPLICANT: algerega, Gere
TITLE OF INVENTION: Method for Promoting Hematopoietic and Mesenchymal Cell Prolifera
TITLE OF INVENTION: Differentiation
FILE REFERENCE: 97.017-FIA
CURRENT APPLICATION NUMBER: US/09/837,697A
UVIMBER OF SEQ ID NOS: 37
SOFTWARE: Patentin version 3.1
SEQ ID NO 13
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                                                                                                                           Sequence 17, Application US/09771192

Patent No. US20020049162A1

GENERAL INFORMATION:
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US-09-771-192-17
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Pred. No. 5.8e+05;
0; Mismatches 1;
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85.7%; Pred. No. 5.8e+05;
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US-09-837-697A-17
Sequence 17, Application US/09837697A
Patent No. US20020146823A1
GENERAL INFORMATION:
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Sequence 13, Application US/09837697A

; Patent No. US220020146823A1

; GENERAL INFORMATION:
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OTHER INFORMATION: AII analogue
NAME/KEY: MISC_FEATURE
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Best Local Similarity 85.7
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; OTHER INFORMATION: Nle
US-09-837-697A-13
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6; Conservative
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; LOCATION: (4)
; OTHER INFORMATION: Nle
US-10-341-001-13
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Best Local Similarity
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Sequence 17, Application US/09772819
Publication NO US200301994341
GENERAL INFORMATION:
APPLICANT: Address, Gere
APPLICANT: Address, Gere
TITLE OF INVENTION: Methods for Accelerating Bone and Connective Tissue
TITLE OF INVENTION: Growth and Repair
FILE REFERENCE: 98655b
CURRENT APPLICATION NUMBER: US/09/772,819
CURRENT FILING DATE: 2001-01-30
NUMBER OF SEC ID NOS: 45
SOFTWARE: Patentin Ver. 2.0
SQO ID NO 17
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US-09-772-819-13
US-09-772-819-13
Sequence 13, Application US/09772819
Publication No. US20030199434A1
GENERAL INFORMATION:
APPLICANT: Rodgers, Kathleen
APPLICANT: dizerega, Gere
TITLE OF INVENTION: Methods for Accelerating Bone and Connective Tissue
TITLE OF INVENTION: Growth and Repair
FILE REFERENCE 19365b
CURRENT APPLICATION NUMBER: US/09/772,819
CURRENT FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 45
SEQ ID NO 13
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                                                                          TYPE: PRT
CRGANISM: Artificial Sequence
FEATURE:
COTHER INFORMATION: Description of Artificial Sequence:All analogue
US-09-930-936-17
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ORGANISM: Artificial Sequence
FEATURE:
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NUMBER OF SEQ ID NOS: 50
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 17
LENGTH: 7
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Best Local Similarity 85.7
Matches 6; Conservative
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| RVYGHPF 7
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US-09-772-819-17
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; OTHER INFORMATION: Description of Artificial Sequence:All analogue US-09-772-819-17
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90.2%; Score 37; DB 16; Length 7;
Best Local Similarity 85.7%; Pred. No. 5.8e+05;
Matches 6; Conservative 0; Mismatches 1; Indels
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                                                                          Length 7;
                                                                     Query Match 90.2%; Score 37; DB 12; Best Local Similarity 85.7%; Pred. No. 5.8e+05; Xatches 6; Conservative 0; Mismatches 1;
                                                                                                                                                                                                                                                                RESULT 14
US-10-341-001-13
Sequence 13, Application US/10341001
Sequence 13, Application US/10341001
Sequence 13, Application US/10341001
GENERAL INFORMATION:
APPLICANT: Rodgers, Kathleen
APPLICANT: diZerega, Gere
TITLE OF INVENTION: Radiation Therapy Methods
FILE OF INVENTION: Radiation Therapy Methods
CURRENT APPLICATION NUMBER: US/10/341,001
CURRENT APPLICATION NUMBER: US/10/341,001
NUMBER OF SEQ ID NOS: 38
SOCYTHARE: PATENTIN VET. 2.0
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APPLICANT: diZerega, Gere
TITLE OF INVENTION: Radiation Therapy Methods
FILE REFERENCE: 970178;
CURRENT APPLICATION NUMBER: US/10/341,001
CURRENT FILING DATE: 2003-01-13
NUMBER OF SEQ ID NOS: 38
SOFTWARE: PatentIn Ver. 2.0
LENGTH: 7
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ORGANISM: Artificial Sequence
FEATURE:
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ORGANISM: Artificial Sequence
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F;1-8/Product: angiotensin II #status experimental
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Best Local Similarity 85.7%;
Matches 6; Conservative
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ribosomal protein
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                                                           2003, 18:11:10 ; Search time 25 Seconds (without alignments) 26:927 Million cell updates/sec
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GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.
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                                                                                                                                                                              283308 seqs, 96168682 residues
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Maximum Match 100%
Listing first 45 summaries
                                       CM protein - protein search, using sw model
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A90317
A90315
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Match Length DB
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Perfect score:
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hypothetical prote glycine hydroxymet glucose-1-phosphat glucose-1-phosphat glucose-1-phosphat glucose-1-phosphat glucose-1-phosphat glucose-1-phosphat hypothetical prote methionyl-tRNA syn methionyl-tRNA syn hypothetical prote probable methyl-ac probable methyl-ac putative US snRNP-hypothetical prote hypothetical prote hypothetical prote hypothetical prote deoxyguanosine kin	ENTS	(Japanese quail) 28-Apr-1993 #text_change 07-May-1999 ects of native angiotensins and inhibition of the 684; PMID:2191893 ycoprotein; liver; plasma; vasoconstrictor	; DB 2; Length 10; . 0.15; tches 1; Indels 0; Gaps C;		RESULT 2 A90017 argiotensin precursor - chicken (fragment) argiotensin precursor - chicken (fragment) C.Speciess Gallue gallus (chicken) C.Speciess Gallue gallus (chicken) C.Speciess Gallue gallus (chicken) C.Accession: A90917; A01250 C.Accession: A90917; A01250 C.Accession: A90917; A01250 C.Accession: A90917; A01250 C.Accession: A90917 A.Moretene number: A90917; MUID:74127845; PMID:436.802 A.Accession: A90917 A.Molecule type: protein A.Molecule type: protein A.Molecule type: Drotein A.Molecule type: Drotein A.Molecule type: Protein A.Molecule type: AMNK- C.Keywords: blood pressure control; hormone; vasoconstrictor F.1-10/Product: angiotensin II #status experimental <ani> F.1-8/Product: angiotensin II #status experimental <ani></ani></ani>
C7365: P69050 C9UEC C9UE3 D86009 A40995 A42760 F97541 T21814 T21201 H71317 H71317 C81220 C81220 C75535	ALIGNMENTS	nica (ision 1990 r effe	Score 37; DB Pred. No. 0.1 0; Mismatches		RESULT 2 augiotensin precursor - chicken (fragment) c.Species: Gallus gallus (chicken) C.Species: Gallus gallus (chicken) C.Species: Gallus gallus (chicken) C.Species: 30-Oct-1992 #sequence_revision 30-Oct-1992 C.Accession: A90917; A01250 R.NARAyama, T.; Nakajima, T.; Sokabe, H. Chem. Pharm. Bull. 21, 2085-2087, 1973 A.Title: Comparative studies on angiotensins. III. 8 A.Reference number: A90917; MUID:74127845; PMID:436 A.Accession: A90917 A.Molecule type: protein C.Keywords: blood pressure control; hormone; vasocon F:1-10, Product: angiotensin I #status experimental F:1-18/Product: angiotensin II #status experimental
приниририри		uail ix japoi nce_rev 12-22, epresso ; MulD: n III	7 %;		Ckey Solon OID OID #
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		nnese quai coturnix #sequence a, Y, 19, 12 and depr A60624; M A60624; M htein Kr	90.2%; 85.7%; vative		chicks s (children) (c
78.0 78.0 78.0 78.0 78.0 78.0 78.0 78.0		ESULT 1 G0624  ngrotensin I - Japanese quail Species: Coturnix coturnix ja Jate: 28-Apr-1993 #sequence_r Accession: A60624  FTAkei, Y: Hasegawa, Y. FTILE: Vasopressor and depres Reference number: A60624  Accession: Accession: A60624  Accession: Accessio	Similarity 6; Conserv	RVYAHPF 7         RVYVHPF 8	iotensin precursor - chicke pecies: Gallus gallus (chicke pecies: Gallus gallus (chicke pecies: Gallus gallus (chicke pecies: Gallus gallus (chicke pecies: A90917; A01250 a. Pharm. Bull. 21, 2085-20 itle: Comparative studies of efference number: A90917; Mu chesion: A90917 protein explains: 1-10 «NAK» eywords: blood pressure con-10/Product: angiotensin II
		sin I - Japo s: Coturnix s: Coturnix V.; Hasega Y.; Hasega Vasopresson nce number: nnc number: le type: pt4 es: 1-10 rf7 es: 1-10 rf7 es: 1-10 rf7 es: blood ph		71 73 W—W	sin pre s: Gall 30-Oct- 10-0ct- ma, T.; arm. Bu Compar ion: A9 le type es: 1-10 roduct:
~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		RESULT 1 A60624 angiotensin I - Japanese quai C;Species: Coturnix coturnix C;Accesion: A66624 R;Takei, Y., Hasegawa, Y. Gen. Comp. Endocrinol. 79, 12 A;Title: Vacopressor and depr. A;Reference number: A60624; M A;Accession: A60624; M A;Accession: A60624; M A;Mclecule type: protein A;Residues: 1-10 < TAK> C;Superfamily: antithrombin I C;Keywords: blood pressure co	Query Matcl Best Local Matches	Qy	A50917 angiotensin precursor - chicken (fragme C; Species: Gallus gallus (Chicken) C; Date: 30-Oct - 1992 #sequence_revision C; Accession: A90917; A01250 R; Nakayama, T.; Nakajima, T.; Sokabe, H Chem. Pharm. Bull. 21, 2065-2097, 1973 A; Title: Comparative studies on angiote A; Recreace number: A90917; MUID:741278 A; Molecule type: protein A; Rocession: A90917 A; Molecule type: protein A; Residues: 1-10 «NAK» C; Keywords: blood pressure control; hor F; 1-10/Product: angiotensin I #status e F; 1-8/Product: angiotensin II #status

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Gaps

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Length 10; 1; Indels

Score 37; DB 2; Pred. No. 0.15; 0; Mismatches

us-09-772-819-18.rpr

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N'Alternate names: angiotensinogen
Cispecies: Ovis crientalis aries, Ovis ammon aries (domestic sheep)
Cispecies: Ovis crientalis aries, Ovis ammon aries (domestic sheep)
Cispecies: 10-Sep.3999 #sequence_revision 10-Sep.1999 #text_change 16-Jun-2000
Cispecies: 10-Sep.3999 #sequence_revision 10-Sep.1999 #text_change 16-Jun-2000
Cispecies: No. Suzuki, F.; Fukamizu, A.; Takeda, N.; Takeuchi, K.; Murakami, K.; Makamur
Biosci. Biotechnol. Biochem. Sp. 1884-1885, 1994
A;Title: Sequencing and expression of sheep anglotensinogen cDNA.
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                                                                    C.Species: Equus caballus (domestic horse)
C.Species: Equus caballus (domestic horse)
C.Space: 31 Mar.1991 #sequence_revision 31-Mar.1991 #text_change 20-Mar.1998
C.Accession: A92775; A01250
R.Skeggs Jr., L.T.; Kahn, J.R.; Lentz, K.; Shumway, N.P.
A.Reference number: A93-453, 1957
A.Reference number: A92775
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A;Residues: 1-476 <NAG>
A;Residues: 1-976 <NAG>
A;Cross.references: DBA:D1520; NID:g575593; PIDN:BAA04470.1; PID:g1197183
A;Experimental source: liver
A;Experimental source: liver
A;Note: the authors translated the codon TTC for residue 465 as Leu
R;Fernley, R.T.; John, M.; Niall, H.D.; Coghlan, J.P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
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NyAlernate names: angiotensinogen I
NyContains: angiotensin I
CySpecies: Canie lupus familiaris (dog)
CyAcession: A60834
R;Oliver, J.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                87.8%; Score 36; DB 2; Length 14;
85.7%; Pred. No. 0.34;
iive 3; Mismatches 1; Indels
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85.7%; Pred. No. 0.37;
ive 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                          A.Molecule type: protein
A.Residues: 1-14 <SKE>
C.Superfamily: antithrombin III
C.Superfamily: antithrombin III
E.Superfamily: antithrombin III
F.i-io/Product: angiotensin I #status experimental <AMI>F.i-0/Product: angiotensin II #status experimental <AMI>F.i-8/Product: angiotensin II #status experimental <AMI>F.i-8/Product: angiotensin II #status
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Hypertension 11, 21-27, 1988
A'Title: Purification and partial characterization of contracted number: A60834; MUID:88113996; PMID:3338837 A'Accession: A60834
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A;Molecule type: protein
A;Residues: 1-15 <OLI>
C;Superfamily: antithrombin III
C;Evywords: 91ycoprotein; plasma
F;1-10/Product: angiotensin I #status predicted <MAT>
                                                              angiotensin precursor - horse (fragment)
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Matches 6; Conserv
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Best Local Similarity
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R;Erspaner, V.; Meichiorri, P.; Nakajima, T.; Yasuhara, T.; Endean, R.
Experientia 35, 1132-1133, 1979

A;Title: Amino acid composition and sequence of crinia-angiotensin, an angiotensin II-11:
A;Reference number: S07207; MUD:80624575; PMID:488254
A;Accession: S07207

A;Molecule type: Protein
A;Residues: 1-11 ERS>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       C;Species: Haematobia irritans (horn fly)
C;Date: 28-Oct-1996 #sequence_revision 13-Mar-1997 #text_change 13-Mar-1997
C;Date: 28-Oct-1996 #sequence_revision 13-Mar-1997 #text_change 13-Mar-1997
C;Accession. 56543.
R;Wijffels, G.; Fitzgerald, C.; Gough, J.; Riding, G.; Elvin, C.; Kemp, D.; Willadsen, R
Eur. J. Biochem. 237, 414-423, 1996
A;Title: Cloning and characterisation of angiotensin-converting enzyme from the dipterant A;Reference number: S65431; MUID:96215437; PMID:8647080
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                      C;Species: Bos primigenius taurus (cattle)
C;Date: 30-0ct-1992 #sequence_revision 30-0ct-1992 #text_change 20-Mar-1998
C;Date: 30-0ct-1992 #sequence_revision 30-0ct-1992 #text_change 20-Mar-1998
C;Accession: A90345; Ac1250
R;Elliott, D.F.; Peart, W.S.
Biochem, U. 65, 246-254, 1957
A;Title: The amino acid sequence in a hypertensin.
A;Teference number: A90345
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C.Date: 12-Feb-1993 #sequence_revision 12-Feb-1993 #text_change 18-Aug-2000
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A Molecule type: protein
A Residues: 1-10 401.5A Note: the source is designated as Haematobia irritans exigua
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 36; DB 2; Length 10;
Pred. No. 0.24;
0; Mismatches 1; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match 90.2%; Score 37; DB 2; Length 10; Best Local Similarity 85.7%; Pred. No. 0.15; Matches 6; Conservative 7; Mismatches 1; Indels
                                                                                                                                                                                                                                                                      A;Molecule type: protein
A;Residues: 1-10 <ELL>
C;Keywords: blood pressure control; hormone; vasoconstrictor
F;1-10/Product: angiotensin I #status experimental <ANI>
F;1-8/Product: angiotensin II #status experimental <ANI>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   C; Superfamily: unassigned animal peptides
angiotensin precursor - bovine (fragment)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    angiotensin I - horn fly (fragment)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        87.8%;
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Best Local Similarity 85.7
Matches 6; Conservative
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RIYVHPF 11
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Best Local Similarity
Matches 5; Conserv
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Biochem. 154, 597-601, 1986

A,Molecule type: protein
A,Residues: 25-37, X', 39 <FER>
C;Superfamily: antithrombin III
C;Keywords: blood pressure control; glycoprotein

A; Accession: A25406

Conservative

Query Match Best Local Similarity

Matches

26 RVYIHPF 32

1 RVYAHPF 7

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NyAlternate names: angiotensinogen
N;Contains: angiotensin I; angiotensin II; angiotensin III
N;Contains: angiotensin I; angiotensin II; angiotensin III
C;Species: Homo sapiens (man)
C;Date: 06-Jul-1982 #sequence revision 19-Jan-1996 #text change 08-Dec-2000
C;Accession: A35203; A31362; T37168; 137169; A60825; 139462; A90487; A90226; Z54281; A(R)Fukamizu, A.; Takahashi, S.; Seo, M.S.; Tada, M.; Tanimoto, K.; Uehara, S.; Murakami, J Biol. Chem. 265, 7576-7582, 1990
A;Title: Structure and expression of the human angiotensinogen gene. Identification of A;Reference number: A35203; MUID:90237063; PMID:1692023
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A.Reference number: A31362; MUD:89170129; PMD:2924688
A.Accession: A31362
A.Accession: A3162
A.Accessi
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A; Residues: 1-285 <NIBL.
A; Cross-references: EMBL:X15324; NID:g1197496; PIDN:CAA33385.1; PID:g1197497
A; Accession: 137169
A; Accession: 137169
A; Residues: preliminary; translated from GB/EMBL/DDBJ
A; Molecule type: DNA
A; Residues: 287-375 <NIB2>
A; Residues: 287-375 <NIB2>
A; Cross-references: BMBL:X15325; NID:g28695
A; Cross-references: BMBL:X15325; NID:g28695
A; Cross-references: BMBL:X15325; NID:g28695
A; Cross-references: BMBL:X15325; NID:g28695
A; Fithle: Tissue specific hormonal regulation of the rat anglotensinogen gene expression
A; Reference number: A60825; MUID:87212053; PMID:3579322
                                                                                                                                                                                                                                                                                                                                                                                                          A,Cross-references: GB:AF045887; GB:J03046; NID:g2842773; PIDN:AAC01765.1; PID:g284277!
C;Genetics:
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A; Molecule type: DNA
A; Residues: 1-485 <FUK>
A; Cross-references: GB:X15323; GB:X15324; GB:X15325; GB:X15326; GB:X15327
B; Gaillard: I:, Clauser, E:; Corvol, P.
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Pred. No. 16;
     Evans, B.A.; Haralambidis, J.; Richards, R.I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
R;Clouston, W.M.; Evans, B.A.; Haralambidis, J.; Richards, R. Genomics 2, 240-248, 1988
A;Title: Molecular cloning of the mouse angiotensinogen gene.
A;Reference number: A29978; MUID:88284703; PMID:3397061
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            C;Superfamily: antithrombin III
C;Keywords: blood pressure control
F;1-24/Domain: signal sequence #status predicted <SIG>
F;2-477/Product: angiotensinogen #status predicted <MAT>
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A,Status: preliminary; translated from GB/EMBL/DDBJ
A,Molecule type: DNA
                                                                                                                                                                                                        A,Accession: A29978
A,Status: not compared with conceptual translation
A,Molecule type: DNA
A,Residues: 1-477 <CLO>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 6; Conservative
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A,Residues: 32-184 <KUN1>
R,Kunapuli, S.P.; Kumar, A.
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A Mesidues: 25-41 cBOUD.

C:Comment: Angiotensin I is released from angiotensinogen by renin, which is secreted in

E ( angiotensin-converting enzyme), primarily in the lungs.

C:Comment: The release of the amino-terminal residue (Asp.25) from angiotensin I and ang sp-1] angiotensin I is converted to angiotensin III by dipeptidyl carboxypeptidase I.

C:Comment: Angiotensinogen is synthesized in the liver and secreted into the plasma. The
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A; Residues: 1.477 COHKS
A; Cross-treferences: GB:100094; GB:JC0704; NID:G202912; PIDN:AAA98779.1; PID:G2C2914
R; Bouhnik, J.; Clauser, E.; Strosberg, D.; Frenoy, J.P.; Menard, J.; Ccrvol, P.
Biochemistry 20, 7010-7015, 1981
A; Title: Rat angiotensinogen and Des (antiotensin1) angiotensinogen: purification, cha
A; Reference number: A90456; MUID:82091819; PMID:6797467
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C;Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 10-Sep-1999
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                                                                                                                                                                                                                                                                                                                                                          F;1-24/Domain: signal sequence #status predicted <SIG>
F;24-476/Froduct: angiotensinogen #scatus predicted <MPT>
F;25-34/Product: angiotensin #status predicted <MAT>
F;255,362/Binding site: carbohydrate (Asn) (covalent) #status predicted
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     A;Title: Purification and characterization of ovine angiotensinogen.
A;Reference number: A25406; MUID:86136099; PMID:3081342
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85.7%; Pred. No. 16;
ive 0; Mismatches 1; Indels
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0; Mismatches Score 36; DB Pred. No. 16;

87.8%;

Query Match
Best Local Similarity 85.77
Best Local 6; Conservative

RVYIHPF 32

1 RVYAHPF 7

ઠે g angiotensin precursor - mouse

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Superfamily: antithrombin III

A; Accession: A90456

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C;Species: Caenorhabditis elegans
C;Species: Genorhabditis elegans
C;Species: Genorhabditis elegans
C;Date: 10-May-2001 #sequence_revision 10-May-2001 #text_change 10-May-2001
C;Accession: B88551
K;Anconymous, The C. elegans Sequencing Consortium.
Science 282, 2012-2018, 1998
A;Title: Genome sequence of the nematode C. elegans: a platform for investigating biolo A;Title: Genome sequence of the nematode C. elegans: a platform for investigating biolo A;Title: Genome websites genome.wustl.edu/gsc/C_elegans/ and www_sanger.ac.uk/Projects/C_el A;Note: see websites genome.wustl.edu/gsc/C_elegans/ and www_sanger.ac.uk/Projects/C_el A;Note: published errata appeared in Science 283, 35, 1999; Science 283, 2103, 1999; an A;Accession: B88551
Nature 413, 848-852, 2001
Nature 5 Parry, C.; Quail, M.; Rutherford, K.; Simmonds, M.; Skelton, J.; Stevens, K.
A;Title: Complete genome sequence of a multiple drug resistant Salmonella enterica sero
A;Reference number: AB0502, MUD:21534947; PMID:11677608
A;Recession: AB0982
A;Status: preliminary
A;Residues: 1-146 cPAR>
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Date: 12-Mar-1993 #sequence_revision 12-Mar-1993 #text_change 30-Sep-1993
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                                                                                                                                                                                                                                                                                                                                             A;Gene: STV4159
C;Superfamily: Escherichia coli hypothetical 16.4K
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            5;
                                                                                                                                                                                                                                                                                                                                                                                                                                               DB 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 35; DB 2
Pred. No. 7.1;
1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Library, December 1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DB
17;
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1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A;Molecule type: DNA
A;Residues: 1-129 <BRR>
A;Cross-references: EMBL:Z19158
C;Genetics:
A;Introns: 21/3; 115/3; 193/1; 235/1; 259/1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        85.4%; Score 35; 71.4%; Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                               85.4%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ilarity 71.4%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity 83...
S: Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                C)Species: Caenorhabditis ele
C)Date: 12-Mar-1993 #sequence
C,Accession: S28305
R;Berks, M. S28305
A;Reference number: S28296
A;Accession: S28305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             10 RIYKHPF 16
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Best Local Similarity
Matches 5; Conserv
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es 5; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        22 IYAHPF 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2 UYAHPF 7
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
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                                                                                                                                                                                                                                                                                                                C; Genetics
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A;Residues: 34-46,'X',48-50,'S',52-57,'D' <TEW>
A;Residues: 34-46,'X',48-50,'S',52-57,'D' <TEW>
R;Hixson, J.E.; Powers, P.K.
Hum. Genet. 96, 110-112, 1995
A;Title: Detection and characterization of new mutations in the human angiotensinogen ge
A;Reference number: IS4281; MUID:95331754; PMID:7607642
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A;Status: preliminary; translated from GB/EWBL/DDBJ
A;Molecule type: DNA
A;Residues: 176-241, 17, 243-267, M', 269-287, ANLSAG' <HIX>
A;Residues: 176-241, 17, 243-267, M', 269-287, ANLSAG' <HIX>
A,Cross-references: GB:S78529; NID:g999316; PIDN:AAD14287.1; PID:g4261987
C;Comment: Angiotensin I is released from angiotensinogen by renin, which is secreted in e I (angiotensin-converting enzyme), primarily in the lungs.
C;Comment: The release of the amino-terminal residue (Asp-34) from angiotensin I and ang sp.l]angiotensin I is converted to angiotensin III by dipeptidyl carboxypeptidase I.
C;Comment: Angiotensin II causes vasoconstriction by direct action on blood vessels, by induces thirst.
                                                                                                                                                      A;Residues: 1-267,"M", 269-338 cKUN2>
A;Cross-references: GB:M69110; NIJ:g178643; PIDN:AAA52282.1; PID:g553181
R;Kageyama, R.; Ohkubo, H.; Nakanishi, S.
Biochemistry 23, 3603-3509; 1984
A;Title: Primary structure of human preangiotensinogen deduced from the cloned cDNA sequing A;Reference number: A90487; MUID:85:00455; PMID:6089875
A;Accession: A90487.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        C.Comment: Angiotensin II and angiotensin III are equally potent in stimulating the synt
C.Comment: Angiotensinogen is synthesized in the liver and secreted into the plasma. The
          A,Title: Molecular cloning of human angiotensinogen cDNA and evidence for the presence A,Reference number: 139462, MUID:87244745, PMID:2885106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   vasoconstrictor
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                        A; Wolecule type: mRNA
A; Residues: 1-267, M', 269-485 < KAG>
A; Cross-references: GB: KO2215; NID: g178639; PIDN: AAA51731.1; PID: g178640
A; Note: it is uncertain whether Met-1 or Met-10 is the initiator
R; Tewksbury, D.A.; Dart, R.A.; Travis, J.
Biochem Biophys. Res. Commun. 99, 1311-1315, 1981
A;Title: The amino terminal amino acid sequence of human angiotensinogen.
A; Reference number: A90226; MUID: 81255848; PMID: 7259779
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C;Keywords: blood pressure control; glycoprotein; liver; plasma; v
F;1-33/Domain: (or 10-33) signal sequence #status predicted <SIG>
F;34-485/Product: angiotensinogen #status predicted <MIT>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            87.8%; Score 36; DB 1; Length 485;
85.7%; Pred. No. 16;
Live 0; Mismatches 1; Indels
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734-41/Product: angiotensin II #status experimental <PP2>
F;35-41/Product: angiotensin III #status experimental <PP3>
F;47,170,304,288/Binding site: carbobydrate (Asn) (covalent)
                                                                                                         A,Status: preliminary; translated from GB/EMBL/DDBJA,Molecule type: mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A;Cross-references: GDB:118750; OMIM:106150
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A;Map position: 1q42-1q43
A;Introns: 286/1; 375/2; 423/3
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Best Local Similarity 85.7
Matches 6; Conservative
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R; Parkhill, J.; Doug
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C; Genetics:

RESULT 12

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1 RVYAHPF 7

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us-09-772-819-18.rpr

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A. Experimental Source: strain 935

R. Simpson, A.J.G.; Reinach, F.C.; Arruda, P.; Abreu, F.A.; Acencio, M.; Alvarenga, R.; Abriones, M.R.S.; Bueno, M.R.P.; Camargo, A.A.; Camargo, L.E.A.; Carraro, D.M.; Carrer, H. as-Neto, E.; Docena, C.; El-Dorry, H.; Facincani, A.P.; Fernica, A.J.S.
submitted to GenBank, June 2000

A.Authors: Ferreira, V.C.A.; Freque, J.S.; Franca, S.C.; Franco, M.C.; Frohm C.D.; Junqueira, M.L.; Kemper, E.L.; Kitajima, J.P.; Krieger, J.E.; Kuramae, E.E.; Laigr chado, M.A.; Madeira, A.M.B.N.; Madeira, A.Y.; Menck, C.F.M.; Miracca, E.C.; Miyaki, C.Y.; F.G.; Nunes, L.R.; Oliveira, A.Y.; Menck, C.F.M.; Miracca, E.C.; Miyaki, C.Y.; F.G.; Nunes, L.R.; Oliveira, A.Y.; Menck, C.F.M.; Miracca, E.C.; Miyaki, C.Y.; F.G.; Nunes, L.R.; Oliveira, A.Y.; Menck, C.; M. Silva, R.C.; Palmis', E. A.Authors: da Silva, A.C.R.; da Silva, F.R.; da Silva, A.M.; Silva Jr., M.A.; da Silva, A.K.; Savasak, M.; Tsuhako, M.H.; Vallada, H.; Van Sluys, M.A.; Verjovski-Almeida, S.; Vettore, A.L.; Z.A.COLLELLS: annotation
                                                                                                                                                                                                                                                                                                            P-protein XF2325 [imported] - Xylella fastidiosa (strain. 9850)
C;Species: Xylella fastidiosa
C;Species: Xylella fastidiosa
C;Accession: B82572
S;Accession: B82572
S;Accession: B82572
A;Anonymous, The Xylella fastidiosa Consortium of the Organization for Nucleotide Sequen Nature 406, 151-157, 2000
A;Title: The genome sequence of the plant pathogen Xylella fastidiosa.
A;Reference number: A82515; MUID:20365717; PMID:10910347
A;Note: for a complete list of authors see reference number A59328 below
A;Accession: B82572
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A;Cross-references: GB:AE004043; GB:AE003849; NID:99107486; PIDN:AAF85124.1; GSPDB:GN30
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10 RIYKHPF 16
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Gaps .; 0

Length 374; 0; Indels

Score 34; DB 2; Pred. No. 31; 1; Mismatches

82.9%; 83.3%;

Query Match 82.9 Best Local Similarity 83.3 Matches 5, Conservative

5, 2003, 18:15:29

Search completed: November Job time: 27 secs

|:|||| 201 RIYAHP 206

1 RVYAHP 6

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21-JUL-1986 (Rel. 01, Created)
21-JUL-1986 (Rel. 01, Last sequence update)
15-SEP-2003 (Rel. 42, Last annotation update)
Angiotensinogen [Contains: Angiotensin I (Ang I); Angiotensin II (Ang II)]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (Fragment).
AGT OR SERPINAB.
Bos taurus (Bovine).
Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Cetartiodactyla, Ruminantia, Pecora, Bovoidea,
Bovidae, Bovinae, Bos.
                                                                                                                                                                                                                                                                                                                                                                                    10 AA; 1308 MW; CEF50DD761F2DB42 CRC64;
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Local Similarity 85.7%;
les 6; Conservative (
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RVYVHPF 8
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ID ANGT BOVIN
AC P01017;
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P01017 bos taurus
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                                                  2003, 18:02:50; Search time 18 Seconds (without alignments)
18.288 Million cell updates/sec
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GenCore version 5.1.6
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                                                                                                                                                       127863 seqs, 47026705 residues
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Gapop 10.0 , Gapext 0.5
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Maximum DB seq length: 200000000
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Match 1
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Perfect score:
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Score 37; DB 1; Length 10; Pred. No. 0.11; 0; Mismatches 1; Indels

10 AA.

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	38	,	75.6	511	н	GUAA CAMJE		09pn49	
	39	1	75.6	521	ч	GUAA NEIMA		09jw60	
	40		75.6	521	Н	GUAA NEIM		Q9jxr2	neiggeria m
	41		75.6	521		GUAA XANA		<b>08pk88</b>	xanthomonas
	42	7	75.6	521		GUAA_XANCP		08p8q6	
	43	7	75.6	522		GUAA XYLF		Q9par6	xylella fas
	44	_	75.6	525		GUAA_PSEA	αį	9mxu60	pseudomonas
	45	1	75.6	542		GUAA_SYNY3	ξņ.	P49057	synechocyst
						ALIGNMENTS	ENTS		
RESULT	RESULT 1								
	ANGI BO	BOTUA	AT S	STANDARD		PRT:	10 AA		
Ä	010581;						:		
ር	01-OCT-1996	-1996	(Rel.		Created)	ed)			
υŢ	01-OCT-1996	-1996				sequence update)	pdate)		
DŢ	15-DEC-1998	-1998	(Rel. 37,	37, Last	St.	annotation update)	. update)		
DE	Angiote	ensin-	like p	eptide	н	Angiotensin-like peptide I (Fragment)			
SC	Bothrol	os jar	Bothrops jararaca (Jararaca).	(Jarar	aca				
ပ္ပ	Eukaryo	ota; M	letazoa	; Chor	dat	a; Craniat		teleost	omi;
ဗ	Lepidos	sauria	; Squar	nata;	Sc1,	Lepidosauria; Squamata; Scleroglossa;	Serpentes; Colubroidea	roidea;	
ဗ	Viperio	dae; C	Viperidae, Crotalinae, Bothrops	ae; Be	oth	rcps.			
ŏ	NCBI_TaxID=8724;	axID=8	724;						
RN	Ξ								
(), (),	SEQUENCE	<u>н</u>							
RC	TISSUE=Plasma;	-Plasm	a;						
RX	MEDLIN	E=9620	MEDLINE=96208932; PubMed=8829801;	PubMed	88	29801;			
Z	Borghe	resi R	Borgheresi R.A.M.B., Dalle Lucca	., Dal	]e		Т		Z.P.;
RT	"Isolat	cion a	"Isolation and identification of	tific	ati	on of angi	ensin-like	peptides fr	from the
۲. ا	plasma	of th	e snak	Both:	rop	plasma of the snake Bothrops jararaca."			
K 'J	Comp.	3ioche	m. Phy	siol.	113	Comp. Biochem. Physiol. 113B:467-473(1996)	1996).		
ပ္ပ	is -i-	KILAR!	TY: BE	CONGS	ဥ.	SIMILARITY: BELONGS TO THE SERPIN FAMILY	FAMILY.		
<u> </u>	InterP	ro; 1P	InterPro; IPR000215; Serpin. PROSITE: PS00284: SERPIN: PARTIAL	5, Serj SERPIN	מנק.	ARTIAL			

Thu Nov

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1; Indels

8 AA.

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Crinia georgiana (Quacking frog).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Amphibia; Batrachia; Anura; Neobatrachia; Bufonoidea; Myobatrachidae;
Myobatrachinae; Crinia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Borgheresi R.A.M.B., Dalle Lucca J., Carmona E., Picarelli Z.P.; "Isolation and identification of angiotensin-like peptides from the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Bothrops jararaca (Jararaca).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Lepidosauria; Squamata; Scleroglossa; Serpentes; Colubroidea;
Viperidae; Crotalinae; Bothrops.
                                                                                                                                                                                                                                                                                                                                                                                      9C.2%; Score 37; DB 1; Length 10; 85.7%; Pred. No. 0.11;
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01-NOV-1988 (Rel. 09, Last sequence update)
15-SEP-2003 (Rel. 42, Last annotation update)
                                                                                                                                                                                       ANGIOTENSIN I.
ANGIOTENSIN II.
ANGIOTENSIN III.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           01-0CT-1996 (Rel. 34, Created)
01-0CT-1996 (Rel. 34, Last sequence update)
15-DEC-1998 (Rel. 37, Last annotation update)
Angiotensin-like peptide II (Fragment).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 plasma of the snake Bothrops jararaca.";
Comp. Biochem. Physiol. 113B:467-473(1996).
-:- SIMILANTY: BELONGS TO THE SERPIN FAMILY.
INTERPRO, IPRODO115; Serpin.
FROSITE; PS00284; SERPIN; PARTIAL.
VASOCONSTRICTOR; Plasma; Serpin.
SIMILARITY: BELONGS TO THE SERPIN FAMILY
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                                                                                               InterPro; IPR000215; Serpin.
PROSITE; PS0C284; SERPIN; PARTIAL.
Vasoconstrictor; Plasma; Serpin.
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MEDLINE=96208932; PubMed=8829801;
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   -!- SIMILARITY: BELC
PIR; A60624; A60624.
PIR; A90917; A90917.
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ANG2 BOTJA
Q10582;
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SEQUENCE.
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ANGT CRIGE
ANGT CROST
DT 01-NOV-
DT 15-SEP-
DE Crinia-
OC Crinia-
OC Ambilbi
CO Myobatr
NO ISBOURN
RN III
RP SEQUENC
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-!- FUNCTION: IN RESPONSE TO LOWERED BLOOD PRESSURE, THE ENZYME RENIN CLEAVES ANGIOTENSIN I, FROM ANGIOTENSINOGEN. ACE (ANGIOTENSIN CONVERTING ENZYME) THEN REMOVES A DIPEPTIDE TO YIELD THE PRESSOR SUBSTANCE KNOWN, WHICH HELPS REGULATE VOLUME AND MINERAL BALANCE OF BODY FULIDS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       21-JUL-1986 (Rel. 01, Created)
21-JUL-1986 (Rel. 01, Last sequence update)
28-FEB-2003 (Rel. 41, Last unnotation update)
Anglotensinogen (Contains: Anglotensin I (Ang I); Anglotensin II (Ang II); Anglotensin III (Ang III) (Des-Asp[1]-anglotensin II)]
                           Blochem. J. 65:246-254 (1957).
-!- FUNCTION: IN RESPONSE TO LOWERED BLOOD PRESSURE, THE ENZYME RENIN CLEAVES ANGIOTENNIN I, FROM ANGIOTENSINOGEN. ACE (ANGIOTENSIN BLOOD CONVERTING ENZYME) THEN REMOVES A DIFFETIDE TO YIELD THE PHYSIOLOGICALLY ACTIVE PEPTIDE ANGIOTENSIN II, THE MOST POTENT PRESSOR SUBSTANCE KNOWN, WHICH HELPS REGULATE VOLUME AND MINERAL BALANCE OF BODY FLUIDS.
-!- SUBCELLULAR LOCATION: Secreted.
-!- TISSUE SPECIFICITY: Synthesized by the liver and secreted in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gallus gallus (Chicken), and
Coturnix coturnix japonica (Japanese quail).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Eukaryota; Meses; Neognathae; Galliformes; Phasianidae; Phasianinae;
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TISSUE SPECIFICITY: Synthesized by liver and secreted in plasma
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Gaps

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MEDLINE=86136099; PubMed=3081342;
MEDLINE=86136099; PubMed=3081342;
MEDLINE=86136099; PubMed=3081342;
MEDLINE=86136099; PubMed=3081342;
Perriley R.T., John M., Niall H.D., Coghlan J.P.;
Purification and characterization of ovine angiotensinogen.";
Eur. J. Biochem. 154:597-601(1986).
-: FUNCTION: IN RESPONSE TO LOWERED BLOOD PRESSURE, THE ENZYME RENIN CLEAVES ANGIOTENSIN I, FROM ANGIOTENSINGEN. ACE (ANGIOTENSIN CONVERTING ENZYME) THE REMAYED A DIPEPTIDE TO YIELD THE PHYSIOLOGICALLY ACTIVE PEPTIDE ANGIOTENSIN II, THE MOST POTENT PRESSOR SUBSTANCE NOWN, WHICH HELPS REGULATE VOLUME AND MINERAL BALANCE OF BODY FLUIDS.
-: SUBCELLULAR LOCATION: Secreted.
-: TISSUE SPECIFICITY: Synthesized by the liver and secreted in the
                                                                                                                                                                                                                Ovis aries (Sheep).
Wakaryota, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Fecora; Bovoidea;
Bovidae; Caprinae; Ovis.
                                                                    01-FEB-1991 (Rel. 17, Created)
01-6CT-1996 (Rel. 34, Last sequence update)
08-FEB-2003 (Rel. 41, Last annotation update)
Angiotensinogen precursor (Contains: Angiotensin I (Ang I);
Angiotensin II (Ang II); Angiotensin III (Ang III) (Des-Asp[1];
                                                                                                                                                                                                                                                                                                                                                                                                                                        "Sequencing and expression of sheep angiotensinogen cDNA.";
Biosci. Biotechnol. Biochem. 58:1884-1885(1994).
                                                                                                                                                                                                                                                                                                                                                                                                Nagase M., Suzuki F., Fukamizu A., Takeda N., Takeuchi K.,
Murakami K., Nakamura Y.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    87.8%; Score 36; DB 1; Length 476;
85.7%; Pred. No. 7.3;
tive 0; Mismatches 1; Indels
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25 34 ANDIOTENSIN I.
25 32 ANGIOTENSIN II.
26 32 ANGIOTENSIN III.
295 295 N-LINKED (GLCNAC. . .) (PO
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PROSITE; PS00284; SERPIN; 1.
VASOCONStrictor; Glycoprotein; Plasma; Serpin;
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PIR, JC2318; JC2318.
InterPro; IPR000227; Angiotensngn.
InterPro; IPR000215; Serpin.
Pfam; PF00079; serpin; 1.
PRINIS; PR00654; ANGIOTENSNGN.
                                                                                                                                                                                                                                                                                                                                                             TISSUE=Liver;
MEDLINE=95072318; PubMed=7765514;
                                STANDARD;
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SEQUENCE FROM N.A.
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                                                                                                                                                      Angiotensin II (Arangiotensin II)].
AGT OR SERPINAS.
                                                                                                                                                                                                                                                                                                 NCBI_TaxID=9940;
                                SHEEP
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            ANGT SHEEP
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Preparation, purification, and amino acid sequence of a
propertied renin substrate.";
J. Exp. Med. 106:439-453(1957).
-! FUNCTION: IN RESPONSE TO LOWERD BLOOD PRESSURE, THE ENZYME RENIN
CLEAVES ANGIOTENSIN I, FROM ANGIOTENSINOGEN. ACE (ANGIOTENSIN
CONVERTING ENZYME) THEN REMOVES A DIPEPTIDE TO YIELD THE
PRESSOR SUBSTANCE KNOWN, WHICH HELPS REGULATE VOLUME AND MINERAL
BALANCE OF BODY FLUIDS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      21-JUL-1986 (Rel. 01, Created)
21-JUL-1986 (Rel. 01, Last sequence update)
15-SEP-2003 (Rel. 42, Last annotation update)
Anglotensinogen [Contains: Anglotensin I (Ang I); Anglotensin II (Ang II); Anglotensin III (Ang II) (Des-Asp[1]-anglotensin II)}
                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             -!- SUBCELLULAR LOCATION: Secreted.
MEDLINE-80024575; PubMed=488254; Erspamer V., Melchicrri P., Nakajima T., Yasuhara T., Endean R.; Erspamer V. Melchicrri P., Nakajima T., Yasuhara T., Endean R.; "Amino acid composition and sequence of crinia-argiotensin, an anglotensin II-like endecapeptide from the skin of the Australian frog Crinia georgiana."

Experientia 35:1132-1133(1979).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Perissodactyla, Equidae, Equus.
NCBI_TaxID=9796;
                                                                                                                                                                                                                                                                                               0
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0
                                                                                                                                                                                                                                                87.8%; Score 36; DB 1; Length 11; 71.4%; Pred. No. 0.18; ive 1; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           87.8%; Score 36; DB 1; Length 14;
85.7%; Pred. No. 0.23;
ive 0; Mismatches 1; Indels
                                                                                                                                                                                                              11 AA; 1271 MW; 8AC921F7DB50440A CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2E9921F8EEEFBDD7 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PIR; A92775; DUE COT-91.
PDB; LERB; 15-OCT-91.
InterPro; IPR000215; Serpin.
A PROSITE; PS00284; SERPIN; PARTIAL.
Wasoconstrictor; Plasma; Serpin; 3D-structure.
I N ANGIOTENSIN I.
ANGIOTENSIN II.
ANGIOTENSIN III.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        plasma.
-!- SIMILARITY: BELONGS TO THE SERPIN FAMILY.
PIR; A92775; A01250.
PDB; 1ER8; 15-OCT-91.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 14 AA
                                                                                       -!- SUBCELLULAR LOCATION: Secreted.
-!- TISSUE SPECIFICITY: Skin.
VAROCOMET':
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRT;
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                                                                                                                                                                                                                                                Query Match
Best Local Similarity 71.4
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Best Local Similarity 85.7
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Equus caballus (Horse).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RVYIHPF 8
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SEQUENCE
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Gaps

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Signal

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Mammalia, Eutheria, Rodentia, Sciurognathi, Muridae, Murinae, Mus.
                                                                                  01-OCT-1989 (Rel. 12, Last sequence update)
28-FBB-2003 (Rel. 41, Last annocation update)
Angiotensinogen precursor (Contains: Angiotensin I (Ang I);
Angiotensin II (Ang II); Angiotensin III (Ang III) (Des-Asp[1]-
angiotensin II].
AGT OR SERFINAB.
Mus musculus (Mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ANGIOTENSIN I.

ANGIOTENSIN II.

N-LINKED (GLCNAC. .) (POTENTIAL)

N-LINKED (GLCNAC. ..) (POTENTIAL)

N-LINKED (GLCNAC. ..) (POTENTIAL)

N-LINKED (GLCNAC. ..) (POTENTIAL)
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                                                                                                                                                                                                                                                                                                                                                                                                                                   MEDLINE-88284703; PubMed=3397061;
Clouston W.M., Evans B.A., Haralambidis J., Richards R.I.;
"Molecular cloning of the mouse angiotensinogen gene.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 477;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Vasoconstrictor; Glycoprotein; Plasma; Serpin; Signal
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85.7%; Pred. No. 7.3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 -!- SIMILARITY: BELONGS TO THE SERPIN FAMILY.
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      477 AA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  EMBL; AF045887; AAC01765.1; --
EMBL; AF045886; AAC01765.1; JOINED.
EMBL; AF045886; AAC01765.1; JOINED.
EMBL; AF045884; AAC01765.1; JOINED.
PIR, A2978; A2978.
MOJ; MOI:8798; A2978.
InterPro; IPR000227; Angiotensngn.
InterPro; IPR000227; Serpin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PROSITE; PS00284; SERPIN; FALSE NEG.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ..
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PRINTS; PR00654; ANGIOTENSNGN.
                                                      01-0CT-1989 (Rel. 12, Created)
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   STANDARD;
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                [1]
SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                 NCBI_TaxID=10090;
ANGT MOUSE
P11859;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CARBOHYD
SEQUENCE
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PEPTIDE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PEDLINE 7060322; PubMed=4344907;
Nakayama T., Nakajima T., Sokabe H.;
"Comparative studies on angiotensins. II. Structure of rat
angiotensin and its identification by DNS-method.";
Chem. Pharm. Bull. 20:1579-1581(1972)
-!- FUNCTION. IN RESPONSE TO LOWERD BLOOD PRESSURE, THE ENZYME RENIN
CLEAVES ANGIOTENSIN I. FROM ANGIOTENSINOGEN. ACE (ANGIOTENSIN
CONVERTING ENZYME) THEN REMOVES A DIPEPTIDE TO YIELD THE
PHYSIOLOGICALLY ACTIVE PEPTIDE ANGIOTENSIN II, THE MOST POTENT
PRESSOR SUBSTANCE KNOWN, WHICH HELPS REGULATE VOLUME AND MINERAL
BALANCE OF BODY FLUIDS
                                                                                                                                                                                                                                                                                                                  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            -:- SUBCELLUIAR LOCATION: Secreted.
-:- TISSUE SPECIFICITY: Synthesized by the liver and secreted in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          "Cloning and sequence analysis of cDNA for rat angiotensinogen.";
Proc. Natl. Acad. Sci. U.S.A. 80:2196-2200(1983).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (POTENTIAL).
                          P010T5;
21-JUL-1986 (Rel. 01, Created)
21-JUL-1986 (Rel. 01, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation update)
Angiotensinogen precursor [Contains: Angiotensin I (Ang I);
Angiotensin II) (Ang II); Angiotensin III (Ang III) (Des-Asp[:]-ag: OR SERPINA8.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ANGIOTENSIN I.
ANGIOTENSIN II.
N-LINKED (GLCNAC. . .) (POTENTIAL)
N-LINKED (GLCNAC. . .) (FOTENTIAL)
N-LINKED (GLCNAC. . .) (FOTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MEDLINE-83169849; PubMed-6572971;
Ohkubo H., Kageyama R., Ujihara M., Hirose T., Inayama S.,
Nakanishi S.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Vasoconstrictor; Glycoprotein; Plasma; Serpin; Signal. SIGNAL 1 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               plasma.
-!- SIMILARITY: BELONGS TO THE SERPIN FAMILY.
477 A.A.
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PROSITE; PS00284; SERPIN; FALSE_NEG.
   PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     InterPro; IPR000227, Angiotensngn.
InterPro; IPR000215; Serpin.
Pfam; PF00079; serpin; 1.
PRINTS; PR00654; ANGIOTENSNGN.
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EMBL; L00091, AAA98779.1; JOINED.
EMBL; L00093; AAA98779.1; JOINED.
EMBL; L00093; AAA98779.1; JOINED.
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STANDARD;
                                                                                                                                                                                                                                                                                       Rattus norvegicus (Rat).
                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                                        NCBI_TaxID=10116;
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CARBOHYD
CARBOHYD
SEQUENCE
ANGT RAT
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                              SOLUTION OF THE FEET THE TRANSPORT OF TH
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DB 1; Length 477;

Score 36; Pred. No.

Best Local Similarity

Query Match

RVYIHPF 32 1 RVYAHPF 7

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MEDLINE-2588257; PubMed=12477932;
MEDLINE-2588257; PubMed=12477932;
MEDLINE-2588257; MEDLINE-258825; MEDLINE-258826;
MEDLINE-2588257; MEDLINE-258826; MEDLINE-258826; MEDLINE-258826; MEDLINE-258826; MEDLINE-258826; MEDLINE-258826; MEDLINE-258826; MEDLINE-258826; MEDLINE-258826; MEDLINE-25826; MED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Kunapuli S.P., Kumar A.; "Molecular cloning of human angiotensinogen cDNA and evidence for the presence of its mRNA in rat heart.";
     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MEDLINE=90237063; PubMed=1692023;
Fukamizu A., Takahashi S., Seo M.S., Tada M., Tanimoto K., Uehara S.,
Murakami K.;
                                                                                                                                                                                                                                                                                                                       Eukaryoča, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
                                                                                                                 ANGT HUMAN STANDARD; PRT; 485 AA.
P010I9; Q16358; Q16359; Q96F91;
21-JUL-1986 (Rel. 01, Created)
15-SEP-2003 (Rel. 01, Last sequence update)
15-SEP-2003 (Rel. 42, Last annotation update)
Anglotensin One precursor (Contains: Anglotensin I (Ang I);
Anglotensin II (Ang II); Anglotensin III (Ang III) (Des-Asp[1]-anglotensin II)].
And OR SERPINAB.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDLINE=85000455; PubMed=6089875;
Kageyama R., Oklubo H., Nakanishi S.;
"Primary structure of human preangiotensinogen deduced from the
cloned cDNA sequence.";
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   Irdels
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                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE FROM N.A.
MEDINE-89170129; PubMed=2924688;
Gallhard I., Clauser E., Corvol P.;
"Structure of human angiotensinogen gene.";
 Mismatches
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MEDLINE=87244745; PubMed=2885106;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Biochemistry 23:3603-3609(1984).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               human and mouse cDNA sequences.
6; Conservative
                                                                                                                                                                                                                                                                                                           Homo sapiens (Human)
                                                                   RVYIHPF 32
                                 ,
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SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE FROM N.A.
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                                 1 RVYAHPF
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                                                                                                                                 ANGT_HUMAN
Matches
                                                                                                                     RESULT 10
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CHARACTERIZATION OF VARIANT CYS-281.
MEDLINE=96199253; PubMed=8621667;
Gimenez-Roqueplo A.P., Leconte I., Cohen P., Simon D., Guyene T.T.,
Celerier J., Pau B., Corvol P., Clauser E., Jeunemaitre X.;
"The natural mutation Y248C of human angiotensinogen leads to abnormal glycosylation and aleared immunological recognition of the protein.";
J. Biol. Chem. 271:9818-9844 (1996).
-:- FUNCTION: IN RESPONSE TO LOWERED BLOOD PRESSURE, THE ENZYME RENIN CLEAVES ANGIOTENSIN I, FROM ANGIOTENSINOGEN. ACE (ANGIOTENSIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MEDLINE=86056581; PubMed=3934016; Campbell D.J., Bouhnik J., Coezy E., Menard J., Corvol P.; Processing of rat and human angiotensinogen precursors by microsomal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MEDLINE=98151281; PubMed=9492117;
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"The octapeptide angiotensin II adopts a Well-defined structure in a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MEĎLINE=69014170; PubMed=4300938;
Arakawa K., Minchara A., Yamada J., Nakamura M.;
Elbrymatic degradation and electrophoresis of human angiotensin I.";
Blochim. Blochya. Acta 168:106-112(1968).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MEDLINE=75166949; PubMed=1132082;
Goodfriend T.L., Peach M.J.;
"Angiotensin III: (DES-Aspartic Acid-1)-Angiotensin II. Evidence and
Speculation for its role as an important agonist in the renin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ward K., Hata A., Jennemaitre K., Helin C., Nelson L., Namikawa C., Errington P.F., Ogasawara M., Suzumori K., Tomoda S., Berrebi S., Saski M., Corvol P., Lifton R.P., Lalouel J.-M.; Molecular variant of angiotensinogen associated with
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  VARIANTS MET-207, THR-268 AND CYS-281.
MEDLINE=93008239; PubMed=1394429;
Medlinemaire X., Soubrier F., Kotelevtsev Y.V., Lifton R.P.,
Williams C.S., Charru A., Hunt S.C., Hopkins P.N., Williams R.R.,
Lalouel J.-M., Corvol P.,
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                                                                                                                                                                                      Oxvig C., Haaning J., Kristensen L., Wagner J.M., Rubin I., Stigbrand T., Gleich G.J., Sottrup-Jensen L.; "Identification of angiotensinogen and complement C3dg as novel proteins binding the proform of esinophil major basic protein human pregnancy serum and plasma."; J. Biol. Chem. 270:13645-13651(1995).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      "Detection and characterization of new mutations in the human angiotensinogen gene (AGT)."; Hum. Genet. 96:110-112(1995).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mol. Cell. Endocrinol. 43:31-40(1985)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STRUCTURE BY NMR OF ANGIOTENSIN II.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      phospholipid environment.";
Eur. J. Biochem. 251:448-453(1998).
                                                                                                                    TISSUE=Serum;
MEDLINE=95293954; PubMed=7539791;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDLINE=93291876; PubMed=8513325;
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WEDLINE=95331754; PubMed=7607642;
                                                                          SEQUENCE OF 34-45, AND SUBUNITS
Circ. Res. 60:786-790(1987).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FUNCTION OF ANGIOTENSIN III
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CARBOHYDRATE-LINKAGE SITES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Genet. 4:59-61(1993).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Circ. Res. 36:38-48(1975)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           71:169-180(1992).
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                                                                                                                                                   WETTING DONE REPRESENTATION OF THE PROPERTY OF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this scatement is not removed. Usage by and for commercial entities requires a license assume the commercial or send an email to license@isb.sib.ch)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MIM, 106150; ...

GO: GO: C005625; C:soluble fraction; TAS.

GO: GO: 0004867; F:serine protease inhibitor activity; TAS.

GO: GO: 0007166; P:cell surface receptor linked signal transdu. . ; TAS.

GO: GO: 0007567; P:cell-cell signaling; TAS.

GO: GO: 0007567; P:pregnancy; TAS.

GO: GO: 0008217; P:regulation of blood pressure; TAS.

InterPro; IPR000227; Angiotensngn.
CONVERTING ENZYME) THEN REMOVES A DIPEPTIDE TO YIELD THE PHYSIOLOGICALLY ACTIVE PEPTIDE ANGIOTENSIN II, THE MOST POTENT PRESSOR SUBSTANCE KNOWN, WHICH HELPS REGULATE VOLUME AND MINERAL BALANCE OF BODY FLUIDS.

-!- FUNCTION: Angiotensin II stimulates aldosterone release.
-!- SUBUNIT: During pregnancy, exists as a disulfide-linked 2:2 heterotetramer with the proform of PRG2 and as a complex (probably a 2:2:2 heterohexamer) with pro-PRG2 and C3dg.
-!- SUBCELLULAR LOCATION: Secreted.
                                                                                                                                                                                                                                                                                                                                                                                                                                                         -!- DISEASE: AGT SEEMS TO BE ASSOCIATED WITH A PREDISPOSITION TO ESSINTIAL HYPERTENSION AS WELL AS PREGNANCY-INDUCED HYPERTENSION (PII) (PRECLAMPSIA).
-!- SIMILARITY: BELONGS TO THE SERPIN PAMILY.
-!- SIMILARITY: BLONGSTAIN WHETHER MET-1 OR MET-10 IS THE INITIATOR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 36; DB 1; Length 485;
Pred. No. 7.4;
0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SMART; SM00093; SERPIN; 1.
PROSITE; PS00284; SERPIN; 1.
Vasoconstrictor; Glycoprotein; Plasma; Serpin; Signal;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ANGIOTENSIN I.
ANGIOTENSIN II.
ANGIOTENSIN III.
N-LINKED (GLCNAC. .).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ANGIOTENSINOGEN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   EMBL, K02215; AAA51731.1; EMBL, M2468; AAA51679.1; EMBL, M2468; AAA51679.1; CMBL, M2468; AAA51679.1; JOINED. EMBL, M2468; AAA51679.1; JOINED. EMBL, X15324; CAA33385.1; CMBL, X15325; CAA33385.1; CMBL, X15326; CAA33385.1; JOINED. EMBL, X15326; CAA33385.1; JOINED. EMBL, X15327; CAA33385.1; JOINED. EMBL, S78529; AAA11519.1; EMBL, S78529; AAA11219.1; CMBL; S78530; AAA11288.1; CMBL; S78530; CM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Disease mutation; Polymorphism. SIGNAL 1 33
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PRINTS; PR00654; ANGIOTENSNGN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PIR; A35203; ANHU.
SWISS-2DPAGE; P01019; HUMAN.
Genew; HGNC:333; AGT.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                87.8%;
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les 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                    plasma
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                                                                                                                                                                                                                                                                                                                                                                                            MEDLINE=94150718; PubMed=7906398; Milson R., Anderson K., Baynes C., Berks M., Culson A., Bolton D., Connell M., Copsey T., Cooper J., Coulson A., Borton M., Dear S., Du Z., Durbin R., Favello A., Fraser A., Johnston L., Gardner A., Green P., Hawkins T., Hillier L., Jier M., Johnston L., Jones M., Kershaw J., Kirsten J., Laisster N., Larreille P., Lightning J., Lloyd C., Mortimore B., O'Callaghan M., Parsons J., Percy C., Rifken L., Roopra A., Saunders D., Shownken R., Sims M., Smaldon N., Smith A., Smith M., Sonnhammer E., Staden R., Sulst Staten J., Thomas K., Vaudin M., Vaughan R., Waterston R., Watson A., Weinstock L., Wilkinson-Sproat J., Wohldman P.;
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                                                                                                                                                                                                                              Eukaryota, Metazoa, Nematoda, Chromadorea, Rhabditida, Rhabditoidea,
Rhabditidae, Peloderinae, Caenorhabditis,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                "2.2 Mp of contiguous nucleotide sequence from chromosome III of C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     .
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Pred. No. 18;
1; Mismatches 1; Indels
                  00366; Q03608;
01-FEB-1994 (Rel. 28, Created)
01-FEB-1995 (Rel. 31, Last sequence update)
15-SEP-2003 (Rel. 42, Last annotation update)
Hypothetical 84.0 kDa protein T23G5.2 in chromosome III.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4121F9F94DE2B587 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Nature 368:32-38(1994).
-!- SIMILARITY: Contains 1 CRAL-TRIO domain.
-!- SIMILARITY: Contains 1 GOLD domain.
-!- SIMILARITY: Contains 1 PRELI/MSF1 domain.
743 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        EMBL, 219158; CAA79573.1; -...
PIR, B88551; B88551.
WormPep; T23G5.2; CE01099.
InterPro; IPR001251; CRAL_TRIO.
InterPro; IPR001071; RetBind/tocTrans.
Pfam; PF005650; CRAL_TRIO; 1.
Pfam; PF07555; CRAL_TRIO; 1.
Pfam; PF07555; CRAL_TRIO; 1.
Pfam; PF07707; MSF1.
PRINTS; MARGING, CRETINALDHBP.
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GOLD.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PROSITE; PSS0191; CRAL TRIO; 1.
PROSITE; PSS0866; GOLD; 1.
PROSITE; PSS0866; GOLD; 1.
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71.4%;
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Best Local Similarity 71.4%,
STANDARD;
                                                                                                                                                                                                  Caenorhabditis elegans.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Hypothetical protein
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                                                                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                   NCBI_TaxID=6239;
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              "Whole-genome random sequencing and assembly of Haemophilus influenzae
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQJENCE FROM N.A.
STRAIN=Rd / KW20 / ATCC 51907;
MEDLINE=95350630; PubMed=7542800;
MEDLINE=95350630; PubMed=7542800;
Fleischmann R.D., Adams M.D., White O., Clayton R.A., Kirkness E.F., Kerlavage A.R., Bult C.J., Tomb J.-F., Dougherty B.A., Merrick J.M., McKenney K., Sutton G., Fitzhugh W., Fields C.A., Gocayne J.D., Scott J.D., Shirley R., Liu L. I., Glodek A., Kelley J.M., Weidman J.F., Phillips C.A., Spriggs T., Hedblom E., Cotton M.D., Utterback T.R., Hanna M.C., Nguyen D.T., Saudek D.M., Brandon R.C., Fitchman J.L., Fuhrmann J.L., Geoghagen N.S.M., Venter J.C., McDonald L.A., Small K.V., Fraser C.M., Smith H.O., Venter J.C.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         01-NOV-1995 (Rel. 32, Created)
15-SEP-2003 (Rel. 42, Last sequence update)
15-SEP-2003 (Rel. 42, Last aequence update)
15-SEP-2003 (Rel. 42, Last annotation update)
Glucose-1-phosphate ademylyltransferase (EC 2.7.7.27) (ADP-glucose synthase) (ADP-glucose pyrophosphorylase) (ADP-glucose pyrophosphorylase)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              HSSP; P00477; 1DFO.
HAMAP; MF 00051; -; 1.
HIGEREO, TRROD1085; G1V_HYMetransf.
Pfam; PF00464; SHMT; 1.
PROSITE; PS00096; SHMT; 1.
Transferase; Pyridoxal phosphate; One-carbon metabolism.
BINDING 227 227 PYRIDOXAL PHOSPHATE (BY SIMILARITY).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Bacteria; Proteobacteria; Gammaproteobacteria; Pasteurellales;
Pasteurellaceae; Haemophilus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        80.5%; Score 33; DB 1; Length 424; 57.1%; Pred. No. 26; ive 2; Mismatches 1; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                EMBL; X92083; CAA63066.1; -. HSSP; P00477; 1DFO.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Science 269:496-512(1995).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Local Similarity 57.1 es 4; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STANDARD;
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GLGC HAEIN
ID GLGC HAEIN
AC P43796;
SEQUENCE
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Archaea; Euryarchaeota; Methanobacteria; Methanobacteriales;
Methanobacteriaceae; Methanothermobacter.
NCBI_TaxID=79929;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   01-0CT-1996 (Rel. 34, Created)
01-0CT-1996 (Rel. 34, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation update)
Serine hydroxymethyltransferase (EC 2.1.2.1) (Serine methylase)
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0
                                                                                                                                                 Drosophila melanogaster (Fruit fly).

Bukaryota, Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
PSphydroidea; Drosophilidae; Drosophila.

NCBL_TaxID=7227;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                82.9%; Score 34; DB 1; Length 544; 83.3%; Pred. No. 21;
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                                                                                                                                                                                                                                                                                                        Brook W.J., Cohen S.M.;
Submitted (SEP-1996) to the EMBL/GenBank/DDBJ databases.
-!- SUBCELLULAR LOCATION: Nuclear (Potential).
-!- SIMILARITY: Contains 1 T-box domain.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             4D4EDB8E78244132 CRC64;
                                              01-NOV-1997 (Rel. 35, Created)
01-NOV-1997 (Rel. 35, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation update)
T-box protein H15.
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                      544 AA
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TRANSFAC; 104412; ...
FlyBasc; FBGT0016666; ...
FLORE; PR00907; T-box; 1...
FRINTS; PR00937; TBOX.
SWART; SW00425; TBOX; 1...
PROSITE; PS01283; TBOX; 1...
PROSITE; PS01284; TBOX; 1...
PROSITE; PS05252; TBOX; 2; FALSE_NEG.
PROSITE; PS05252; TBOX; 3...
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POLY-PRO.
POLY-PRO.
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POLY-GLN.
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                      STANDARD;
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01-OCT-1996
01-OCT-1996
28-FEB-2003
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GLYA_METTM
ID GLYA_METTM
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DOMAIN
                      H15 DROME
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                                                                                                                                                                           This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are the EMBL outstations on its use by non-profit institutions as long as its content is in way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
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MEDLINE=21145866; PubMed=11248100;
MAY B.J., Zhang Q., Li L.L., Paustian M.L., Whittam T.S., Kapur V.;
"Complete genomic sequence of Pasteurella multocida Pm70.";
Proc. Natl. Acad. Sci. J.S.A. 98:3460-3465(2001).
-:- CATALYTIC ACTIVITY: ATP + alpha-D-glucose 1-phosphate =
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 15-SEP-2003 (Rel. 42, Created)
15-SEP-2003 (Rel. 42, Last sequence update)
15-SEP-2003 (Rel. 42, Last nunctation update)
Glucose-1-phosphate ademylyltransferase (EC 2.7.7.27) (ADP-glucose synthase) (ADP-glucose pyrophosphorylase) (ADPGlc PPase).
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-!- PATHAX! Glycogen biosynthesis; first step.
-!- SIMILARIY: BELONGS TO THE BACTERIAL AND PLANTS GLUCOSE-1-
PHOSPHATE ADENYLYLTRANSFERASE FAMILY.
                             diphosphate + ADP-glucose.
SHTHWAY: Glycogen blosynthesis; first step.
SIMILABITY: BELONGS TO THE BACTERIAL AND PLANTS GLUCOSE-1-PHOSPHATE ADENYLYLTRANSFERASE FAMILY.
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Bacteria, Proteobacteria, Gammaproteobacteria, Pasteurellales,
Pasteurellaceae, Pasteurella.
NCBL_TaxID=747;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TIGR; HI159; -...
HAMAP: MF 00644; -; 1.
HAMAP: MF 006548; -; 1.
InterPro; IPR005835; MTP transferase.
InterPro; IPR005835; MTP transferase; 1.
PROSITE: PS00808; ADP GLC PYROPHOSPH 1; 1.
PROSITE: PS00809; ADP GLC PYROPHOSPH 2; 1.
PROSITE: PS00809; ADP GLC PYROPHOSPH 3; 1.
Glycogen biosynthesis; Transferase; Nucleotidyltransferase;
CATALYTIC ACTIVITY: ATP + alpha-D-glucose 1-phosphate =
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SEQUENCE 437 AA; 49107 MW; ESE2284ACESADID9 CRC64;
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83.3%; Pred. No. 27;
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PIR; B64119; B64119.
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Best Local Similarity 83.2
Best Local Si Conservative
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254 LYAHPF 259
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GLGC_PASMU
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DK HAMAP; MF C0624; -; 1.

DR InterPro; TPR005835; MTP_transferase.

DR PRO0435; MTP_transferase.

DR PROSITE: P800808; MDP_Glu_pyroP.

DR PROSITE: P800808; MDP_GLC_PYROPHOSPH 1; 1.

DR PROSITE: P800808; MDP_GLC_PYROPHOSPH 2; 1.

DR PROSITE: P800809; MDP_GLC_PYROPHOSPH 3; 1.

DR PROSITE: P800809; MDP_GLC_PYROPHOSPH 3; 1.

DR PROSITE: P800809; MDP_GLC_PYROPHOSPH 3; 1.

NA Glycogen biosynthesis; Transferase; Nucleotidyltransferase;

NA Glycogen biosynthesis; Transferase;

NA Glycogen biosynthesis; Transfera
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Angiotensinogen precursor.
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                                                                 November 5, 2003, 18:10:26; Search time 53 Seconds (without alignments) 34.082 Million cell updates/sec
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GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.
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Maximum Match 100%
Listing first 45 summaries
                                               - protein search, using sw model
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1: Sp archea:*

2: sp bacteria:*

3: sp_tungi:*

4: sp_human:*

5: sp_mammal:*

7: sp_mhc:*

7: sp_phage:*

8: sp_organelle:*

9: sp_plane:*

1: sp_plane:*

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Perfect score:
Sequence:
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Q8imu0 drosophila Q9pb20 xyiella fas Q9wm2 drosophila Q8kmt2 bacillus th C8ila7 pyrococcus Q9cm52 pasteurella Q9cm52 pasteurella Q9cm52 leishmania Q8i5v4 plasmodium Q9thv1 oryza sativ Q8an19 bradythizob Q8an29 bradythizob Q8an19 pyrobaculum Q8bx64 mus musculu Q11094 bovine aden Q8tts methanosarc Q8223 arabidopsis Q30774 treponema pr P95084 mycobacteri Q8233 salmonella Q319499 cylindrothe	up on on Al	eptile, Aligator  33).  (61F2DB42 CRC64,  7; DB 13; Length 1C;  5. 0.54;  1; Indels 0; Gaps 0;  454 AA.  454 AA.
QBIMUO Q9PB20 Q9VR3 Q8VR3 Q8UIA7 Q8UIA7 Q91446 Q0CN95 Q0CN95 Q0CN95 Q0CN95 Q0CN95 Q0CN975 Q0CN975 Q0CN975 Q0CN975 Q0CN975 Q0CN975 Q0CN975 Q0CN975 Q0CN975 Q0CN975 Q0CN97		d from a reptile, 214-219(1993); CEE38DD761F2DB. Score 37; DB. Pred. No. 0.54 0; Mismatches 0; Mismatches Created) Last sequence up Last sequence up Last sequence up
82.9 269 5 80.9 374 16 80.5 113 2 80.5 1185 17 80.5 185 12 80.5 2 325 2 80.5 2 433 2 80.5 2 433 2 80.5 432 16 80.5 185 17 80.5 185 16 80.5 185 16 80.5 185 16 80.5 185 16 80.5 172 8 80.5 172 8 80.5 174 2 178 0 176 16 178 0 177 17 180 211 17 180 335 17 180 401 2 180 401 2 180 401 2	RESULT 1  O9PS07  IC O9PS07  DT 01-MAY-2000 (TrEMBLrel. 13, Created) DT 01-MAY-2000 (TrEMBLrel. 13, Last seque DT 01-MAY-2000 (TrEMBLrel. 13, Last annot DE Angiotensin I, ANG I.  OS Alliqaco mississispipiensis (American a Compart of Angiotensin I, ANG I.  OC Archosauria, Crocodylidae; Alliqatorii ON NOBI TaxID=8496;  RN (11)— RP SEQUENCE: RX XEDLINE=33307610; PubMed=8319878; RA Takei Y., Silldorff E.P., Hasegawa Y., Race Taxio Sakakibara S.;	piensis."; Endocrinol. 90:2 10 AA; 12:6 MW; imilarity 85.7%; Conservative RVYAHPF 7
多 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	T 1 O9PS07 O9PS07 O3PS07 O1-MAY-2000 O1-MAY-2000 O1-MAY-2000 MAY-2000 Andiotensin Andiotensin Andiotensin Andiotensin Archosauria; NCB TaxID=8 SEQUENCE SEQUENCE TAXID=8 SEQUENC	"New angloce missisphote con Comp." ESQUENCE 1 SEQUENCE 1 ST Local Simi at Local Simi ches 6;  1 RVY 1 RVY 1
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NCBI_TaxID=10090;
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                                                                                                                         Laurent V., Bulet P., Salzet M.A.;
"A comparison of the leech Theromyzon tessulatum angiotensin I-like molecule with forms of vertebrate angiotensinogens: a hormonal system conserved in the course of evolution.";
Neurosci. Lett. 190:175-178 (1995).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Laurent V., Salzet M.;
"Metabolism of angiotensins by head membranes of the leech Theromyzon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes;
Cyprinidae; Danio.
NCBI_TaxID=7955;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FEBS Lett. 384:123-127(1996).

- PUNCTION: IN LEECHES THE ANDIOTENSINS ARE INVOLVED IN DIURESIS. Glycoptotein; Serpin NON_TER 14 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     01-NOV-1996 (TrEMBLrel. 01, Created)
01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
01-NOV-1998 (TrEMBLrel. 08, Last annotation update)
01-NOV-1999 (TrEMBLrel. 08, Last annotation update)
Angiotensingen (Fragment).
Theromyzon tessulatum (Leech).
Eukaryota; Metazoa; Annelida; Clitellata; Hirudinida; Hirudinea;
Rhynchobdellida; Glossiphoniidae; Theromyzon.
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Protease inhibitor; Serine protease inhibitor; Serpin; Signal.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    90.2%; Score 37; DB 13; Length 454; 85.7%; Pred. No. 26; Live 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    87.8%; Score 36; DB 5; Length 14;
85.7%; Pred. No. 1.2;
tive 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                    POTENTIAL.
ANGIOTENSIN I.
6E8A1D4E82E14E38 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          14 AA; 1763 MW; 335109D8EEEFBDD7 CRC64;
Brachydanio rerio (Zebrafish) (Danio rerio).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   14 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE.
MEDLINE=95365039; PubMed=7637887;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TISSUE=BRAIN;
MEDLINE=96201949; PubMed=8612806;
                                                                                                                                                                                                                                                                                                                                               PRINTS; PRO0654; ANGIOTENSNGN.
SMART; SM00093; SERPIN; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE 454 AA; 51058 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity 85.7
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity 85.7
Matches 6; Conservative
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SEQUENCE FROM N.A.

SEQUENCE FROM N.A.

MEDLINE=22354683; PubMed=12466851;

The FANTOM Consortium,

The FANTOM Consortium,

The RINEN Genome Exploration Research Group Phase I & II Team;

Analysis of the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs.";

Nature 420:563-573 (2002).

Mature 420:563-573 (2002).

EMBL; AK029331; BAC26399.1; -.

Hypotherical protein.

SEQUENCE 244 AA; 28067 MW; BFBF32560A392D6C CRC64;
                                                                                                                                                                                                                                                                                                            SEQUENCE FROM N.A.
SPRAINE-CYDEL/GAJ TISSUE=Cerebellum;
MEDLINE-EXDEL/GAJ TISSUE=Cerebellum;
MEDLINE-EXDEL/GAJ TISSUE=Cerebellum;
MEDLINE-EXDEL/GAJ TISSUE-CEREBELL
The FANTOM Consortium,
The RIKEN Genome Exploration Research Group Phase I & II Team;
"Analysis of the mouse transcriptome based on functional annotation of 60,770 £ull-length cDNAs."
Nature 420:563-5773 (2002).
EMBL, AXO47396; BAC33044.1;
EMBL, AXO47396; BAC33044.1;
SEQUENCE 222 AA, 25370 MW; BFBCF5E2530BEC4A CRC64;
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QBEXE6 PRELIMINARY; PRT; 222 AA.
QBEXE6 O1-MAR-2003 (TEMBLEE]. 23, Created)
01-MAR-2003 (TEMBLEE]. 23, Last sequence update)
01-MAR-2003 (TEMBLEE]. 23, Last annotation update)
01-MAR-2003 (TEMBLEE]. 23, Last annotation update)
SCL4-like protein 1 homolog.
Mus musculus (Mouse).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutleria; Rodentia; Sciurognathi; Muridae; Musinae; Mus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Eukaryota, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
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87.8%; Score 36; DB 11; Length 244;
Best Local Similarity 100.0%; Pred. No. 22;
Matches 6; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               87.8%; Score 36; DB 11; Length 222; 85.7%; Pred. No. 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Last sequence update)
Last annotation update)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           01-MAR-2003 (TrEMBLrel. 23, Created) 01-MAR-2003 (TrEMBLrel. 23, Last seq 01-WAR-2003 (TrEMBLrel. 23, Last ann Hypothetical protein. Mus musculus (Mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity 85.7
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRELIMINARY;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            10 RVYKHPF 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 RVYAHPF 7
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Q95J13;
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Q95J13
ID Q95J1
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Pfam; PF00079; serpin; 1.
PRINTS; PR00654; ANGIOTENSNGN.
Hypothetical protein; Protease inhibitor; Serine protease inhibitor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A.
DISCOLLAGE STOCK N.A.
DUGOUR C., CGSANO; PubMed=11013071;
Dufour C., CGSANO D., Denton D., Wickings J., Corvol P.,
Jeunemaitre X.;
Jeunemaitre X.;
Jeunemaitre X.;
Jeunemaitre DNA sequence variation in the four major genes of the renin angiotensin system.";
Genomics 69:14-26 (2000).
                                                                                                                                                                                                 Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Rodentia, Sciurognathi, Muridae, Musimae, Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Bukaryoča; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Butheria; Primates; Catarrhini; Hominidae; Pan.
NCBI_TaxID=9598;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   87.8%; Score 36; DB 11; Length 477;
85.7%; Pred. No. 43;
tive 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 EMBL, AF193461, AAG30306.1;
EMBL, AF193461, AAG30306.1;
EMBL, AF193469, AAG30306.1;
EMBL, AF193459, AAG30306.1;
EMBL, AF193459, AAG30306.1;
Unterpro, IPR000227; Aag3046.1; JOINED.
Interpro, IPR000227; Aag3046.1; JOINED.
Interpro, IPR000217; Aag3046.1;
PRINTS; PR00654; AAG30306.11.
EMINTS; PR00654; ANGJOTENSNGN.
SMART; SM00093; SERPIN; 1.
PROSITE; PR00684; SERPIN; 1.
PROSITE; PR00684; SERPIN; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Strausberg R.;
Submitted (MAY-2002) to the EMBL/GenBank/DDBJ databases.
Submitted (MAY-2002) to the EMBL/GenBank/DDBJ databases.
EMBL, BC019496; AAH19496.1;
EMBL, BC028977; AAH19497.1;
InterPro; IFR00227; Angiotensngn.
InterPro; IPR00227; Serpin.
                                                                                                                                                                                                                                                                                                                                                                                  Strausberg R.;
Submitted (DEC-2001) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Serpin.
SEQUENCE 477 AA: 51985 MW; AB79B8B70592FDE2 CRC64;
                           QavCNO;
01-MAR-2002 (TrEMBLrel. 20, Created)
01-MAR-2002 (TrEMBLrel. 20, Last sequence update)
C1-MAR-2003 (TrEMBLrel. 23, Last annotation update)
Hypothetical protein (Angiotensinogen).
Mus musculus (Mouse).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Last sequence update)
Last annotation update)
   477 A.A.
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01-MAR-2001 (TrEMBLrel. 16, Last sequ
01-OCT-2002 (TrEMBLrel. 22, Last anno
   PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               troglodytes (Chimpanzee).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Local Similarity 85.7
nes 6; Conservative
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   PRELIMINARY;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                 NCBI_TaxID=10090;
                                                                                                                                                                                                                                                                                                                        SEQUENCE FROM N.A. TISSUE=Liver;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Angiotensinogen.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       rissue=Liver;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1011_TaxID=9606;
                                                                                                                                                Pan troglodytes (Chimpanzee).
Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Pan.
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                                                                                                                                                                                                                                                                                                                                                                                  "Comparison of DNA and protein polymorphims between humans and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       87.8%; Score 36; DB 6; Length 245;
85.7%; Pred. No. 22;
85.7%; Pred. No. 22;
7ative 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            87.8%; Score 36; DB 4; Length 477;
85.7%; Pred. No. 43;
tive 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Strausberg R.;
Submitted (JUL-2001) to the EMBL/GenBank/DDBJ databases.
Submitted (JUL-2001) to the EMBL/GenBank/DDBJ databases.
EMBL, BC011231; AAH11231.1;
EMBL, BC011231; AAH11231.1;
InterPro; IPR000227; Angiotensngn.
InterPro; IPR000227; Angiotensngn.
InterPro; IPR000215; Serpin.
PRINTS; PR00654; ANGIOTENSNGN.
Protease inhibitor; Serpin.
BROUGENE 477 AA; S1985 MM; AB79B8BJ0592FDEZ CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                 chimpanzees.";
Submitted (MAY-2001) to the EMBL/GenBank/DDBJ databases.
LishuLARITY: BELONGS TO THE SERPIN FAMILY.
EMBL; AB062027; BAB55856.1;
EMBL; AB062028; BAB558857.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Interpro; 1PR000257; Angiotensingn.
Interpro; 1PR000215; Serpin.
Interpro; 1PR000215; Serpin.
Interpro; 1PR00054; Angiotensingn.
Interpro; PR00654; ANGIOTENSNGN.
Protease inhibitor; Serine protease inhibitor; Serpin.
NON TER 245
SEQÜENCE 245 AA; 26317 MM; E009239039803E0B CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  01-DEC-2001 (TrEMBLrel. 19, Created)
01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
Similar to angiotensinogen.
01-DEC-2001 (TrEMBLrel. 19, Created)
01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
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                                                                                        Angiotensinogen (Fragment).
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                                                                                                                                                                                                                                                                                            SEQUENCE FROM N.A.
STRAIN=504, and 505;
Satta Y.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 26 RVYIHPF 32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             35 kVYIHPF 41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity
Matches 6; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 RVYAHPF 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity
Matches 6; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            I RVYAHPF 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A. TISSUE=Brain;
                                                                                                                                                                                                                                        NCBI_TaxID=9598;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 8
Q8VCN0
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SEQUENCE FROM N.A.
MEDLINE=20065005; PubMed=10598135;
Valdenaire O., Breu V., Giller T., Bur D., Fischli W.;
"Cloning and characterization of marmoset renin: comparison with human renin.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Eutheria; Primates; Platyrrhini; Callitrichidae; Callithrix.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mus musculus (Mouse).
Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi;
Mammalia, Butheria, Rodentia, Sciurognathi, Muridae, Murinae, Mus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Pfam; PF00079; serpin; 1.
PRINTS, PR00654; ANGIOTENSNGN.
SMART; SM00031; SERPIN; 1.
PROSITE; PS00284; SERPIN; 1.
Protease inhibitor; Serine protease inhibitor; Serpin; Signal.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match 87.8%; Score 36; DB 6; Length 486; Best Local Similarity 85.7%; Pred. No. 44; Matches 6; Conservative 0; Mismatches 1; Indels
                                                                                                                                                                    Query Match 87.8%; Score 36; DB 6; Length 485; Best Local Similarity 85.7%; Pred. No. 44; Matches 6; Conservative 0; Mismatches 1; Indels
Pfam; PF00079; serpin; 1.
PRINTS; PR00654; ANGIOTENSNGN.
SMART; SM00093; SERFIN; 1.
PROSTIF; P500264; SERFIN; 1.
Protease inhibitor; Serpin.
SEQUENCE 485 AA; 53186 MW; 53BC9235271C8255 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ANGIOTENSINOGEN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Last sequence update;
Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Last sequence update)
Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            J. Cardiovasc. Pharmacol. 34:893-897(1999).
-!- SIMILARITY: BELONGS TO THE SERPIN FAMILY.
EMBL. AJ132343; CAB64880.1; -.
InterPro; IPR000227; Augiotensngn.
InterPro; IPR000215; Serpin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          716 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                      486 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Callithrix jacchus (Common marmoset).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                01-JUN-2001 (TrEMBLrel. 17, Created) 01-JUN-2001 (TrEMBLrel. 17, Last sequ 01-MAR-2003 (TrEMBLrel. 23, Last annot RIKEN CDNA 1200017E04 gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Created)
                                                                                                                                                                                                                                                                                                                                                                                                                                    PRT;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Angiotensinogen precursor.
                                                                                                                                                                                                                                                                                                                                                                                                                                    PRELIMINARY;
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                                                                                                                                                                                                                                                                                                          35 RVYIHPF 41
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NCBI_TaxID=9483;
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                                                                                                                                                                                                                                                                                                                                                                                                                                    09TSZ0
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Q9TSZ0
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Shattuck-Eddens D., McGrail M., Stone S.;
Germline mutations in the angiotensinogen gene cause predisposition to type 1 diabetes mellitus.";
Submitted (SEP-1999) to the EMBL/GenBank/DDBJ databases.
-1. SIMILARITY: BELONGS TO THE SERPIN FAMILY.
EMBL, AF188487; AAG29056.1;
InterPro; IPR0000215; Argiotensngn.
InterPro; IPR0000215; Serpin.
PF00079; serpin; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
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Shattuck-Eidens D., McGrail M., Stone S.;
Germine metations in the angiotensinogen gene cause predisposition
"Germine metations in the angiotensinogen gene cause predisposition
to type 1 diabetes melliuss.";
Submitted (SEP-1999) to the EMBL/GenBark/DDSJ databases.
-!-SIMILARITY: BELONGS TO THE SERPIN FAMILY.
EMBL, AF188488; AAG29057.1;
InterPro; IPR000227, Angiotensagn.
InterPro; IPR000227, Angiotensagn.
                                                                                                  Gaps
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Gorilla gorilla (gorilla).
Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Gorilla.
                                                                                                                                                                                                                                                                                                                                                                                                                                                        AGT.
Bukar troglodytes (Chimpanzee).
Eukaryots, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi,
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Pan.
NCBI_TaxID=959e;
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85.7%; Pred. No. 44;
ive C: Mismatches 1; Indels
                                             DB 6; Length 485; 44;
                                                                                                1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRINTS; PRO0654; ANGIOTENSNGN.
SMART; SNO0093; SERPIN; 1.
PROSITE; PS00284; SERPIN; 1.
SEQUENCE inhibitor; Serine protease inhibitor; Serpin.
SEQUENCE 485 AA; 53140 MW; 49EFB54AF31FBADC CRC64;
485 AA; 53110 NW; C14C67E49A53F05F CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    01-MAR-2001 (TrEMBLrel. 16, Created)
01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
01-OCT-2002 (TrEMBLrel. 22, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                      Last sequence update)
Last annotation update;
                                                                                                                                                                                                                                                                                                               485 AA
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                                             87.8%; Score 36; DB
85.7%; Pred. No. 44;
iive 0; Mismatches
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Gaps

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Gaps

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Indels

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Pred. No. 66; 0; Mismatches

85.7%;

6; Conservative

Best Local Similarity Matches 6; Conserv

Length 719;

DB 11;

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
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Sukaryotas, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi,
Mammalia, Butheria, Rodentia; Sciurognathi, Muridae, Murinae; Mus
NCBI_TaxID=10090;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   .;
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                                                                                                                                                                                                                                                                                                                                                                                                          87.8%; Score 36; DB 11; Length 716;
85.7%; Pred. No. 65;
iive 0; Mismatches 1; Indels
                         Submitted (APR-2001) to the EMBL/GerBank/DDBJ databases.

RENEL, BCO05766; AAH05766.1, -
MCD: MGI:1921386; 11200017EC4RIK.

InterPro: IPR001251; CRAL_TRIO.

InterPro: IPR0017071; REEBINd/LocTrans.

Pfam; PF00560; CRAL_TRIO. 1.

Pfam; PF003765; CRAL_TRIO. 1.

Pfam; PF003765; CRAL_TRIO. 1.

Pfam; PF003765; CRAL_TRIO. 1.

Pfam; PF003165; CRAL_TRIO. 1.

REAM; PF01919; CRAL_TRIO. 1.

RECOURSE 716 AA; 81275 MW; 8CA525D06ABFEBB4 CRC64;
                               to the EMBL/GerBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PIGHT: SMOOSI6; SECI4; 1.
PROSITE; PS50191; CRAL TRIO; 1.
ERCHIENCE 719 AA; 81750 MW; 6ACB31D4F5BAB7F8 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              01-07N-2001 (TrEMBLrel. 17, Created)
01-07NN-2001 (TrEMBLrel. 17, Last sequence update)
01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             719 AA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STRAIN=CS7BL/6J; TISSUE=Lung;
MEDLINE=21005660; PubMed=11217851;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             EMBL; AK004818; BAB53589.1; -- MOD; MGI:1921386; 120017E04Rik. InterPro; IPR001251; CRAL_TRIO. InterPro; IPR006797; MSFI. Ffam; PF00650; CRAL_TRIO; 1. Pfam; PF03765; CRAL_TRIO; 1. Pfam; PF04707; MSFI. IRIO.N; 1.
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Best Local Similarity 85.7
Matches 6; Conservative
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1200017E04RIK.
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STRAIN-LTZ / SGSC1412 / ATCC 700720;
MEDLINE-21534949; PubMed=11677609;
MCDLINE-21534949 PubMed=11677609;
MCDLINE-21534949 N.B. Spheth J., Clifton S.W., Latreille P., Courtney L., Porwollik S., Ali J., Dante M., Du F., Hou S., Layman D., Leonard S., Mauyen C., Scott K., Holmes A., Grewal N., Mulvaney E., Ryan E., Sun H., Florea L., Miller W., Stoneking T., Nhan M., Materston R., Wilson R.K.; Salmonella enterica serovar Typhimurium
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                        Salmonella typhimurium.
Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;
Enterobacteriaceae; Salmonella.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Nature 413:852-856(2001).

EMBL; AEC08869; AAL22503.1; -.
InterPro; IPR000182; GCNSacetyltransf.

Pfan, PF00583; Acetyltransf; 1.

Transferase; Hypothetical protein; Complete proteome.

SEQUENCE 146 AA; 16945 MW; BC7F24C3C91EF375 CRC64;
                                                                                                                                                                    01-MAR-2002 (TrEMBLrel. 20, Last sequence update) 01-JUN-2002 (TrEMBLrel. 21, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 13.4%; Score 35; DB 16; ilarity 83.3%; Pred. No. 21; Conservative 1; Mismatches 0.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        5, 2003, 18:14:56
                                                                                                                                                     01-MAR-2002 (TrEMBLrel. 20, Created)
                                                                                                                                                                                                        Putative acetyltransferase.
                                                                                                                     PRELIMINARY;
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                                  10 RVYKHPP 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity
Matches 5; Conserv
1 RVYAHPF 7
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22 IYAHPF 27
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                                                                                                                                                                                                                      YIAC OR STM3643
                                                                                                                                                                                                                                                                                           NCBI_TaxID=602;
                                                                                                                     Q8ZLA3
Q8ZLA3;
                                                                                  RESULT 15
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